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<210> 1245

<211> 855

<212> DNA

<213> B.fragilis

<400> 1245

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<210> 1246

<211> 2427

<212> DNA

<213> B.fragilis

<400> 1246

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<210> 1247

<211> 501

<212> DNA

<213> B.fragilis

<400> 1247

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<210> 1248

<211> 2151

<212> DNA

<213> B.fragilis

<400> 1248

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<210> 1249

<211> 279

<212> DNA

<213> B.fragilis

<400> 1249

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aaaattttca	atgccgacct	atcagccact	ccgcaactgg	caatacagag	ggatatattt	180
atattccaaa	cactgatagg	ctgtcagagt	agcgacctat	accgcatgac	gcagagccga	240
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<210> 1250

<211> 1443

<212> DNA

<213> B.fragilis

<400> 1250

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<210> 1251

<211> 1068

<212> DNA

<213> B.fragilis

<400> 1251

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<210> 1252

<211> 906

<212> DNA

<213> B.fragilis

<400> 1252

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<210> 1253

<211> 1764
 <212> DNA
 <213> B.fragilis

<400> 1253
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<210> 1254
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 <212> DNA
 <213> B.fragilis

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<210> 1255
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 <212> DNA
 <213> B.fragilis

<400> 1255
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<210> 1256

<211> 2421

<212> DNA

<213> B.fragilis

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<211> 1572

<212> DNA

<213> B.fragilis

<400> 1257

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<210> 1258

<211> 1020

<212> DNA

<213> B.fragilis

<400> 1258

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gaaatgtttc	attcacgtag	tggggagaaa	ataggtatat	tttatagctc	aaaagatgat	180
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<210> 1259

<211> 264

<212> DNA

<213> B.fragilis

<400> 1259

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cggtttgcca	cgtttgccgt	accgtttgcc	ggagggccga	acgccggatt	cttgccattat	180
ccgaaagctg	tacaatctca	gccgatttac	tggcctatat	caaccgttta	tccgattatt	240
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<210> 1260

<211> 621

<212> DNA

<213> B.fragilis

<400> 1260

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ccatgggttaa	ccgtacgttg	tgacgacatg	cttttgccca	acggcaatca	tattccggag	180
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ggcgtatgtg	agaaagaaga	cgcttcacca	cttgtttcgg	cgcaacggga	gctacttgaa	360
gagaccggat	acggcaaagg	caactggaaa	gagtatatgg	taatttcggc	caatccgagt	420
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<210> 1261

<211> 192

<212> DNA

<213> B.fragilis

<400> 1261

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atcattcctg	ttgtaaactg	gggtttcggg	aacgatagta	aggggtgttt	tgattttgtg	180
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<210> 1262

<211> 594

<212> DNA

<213> B.fragilis

<400> 1262

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gacgatattt	acttagcatt	gtcacagtta	gcagagaaac	aaaagcatgt	taataacaaa	540
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<210> 1263

<211> 2439

<212> DNA

<213> B.fragilis

<400> 1263

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1263
 2439
 DNA
 B.fragilis

<210> 1264
 <211> 306
 <212> DNA
 <213> B.fragilis

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<210> 1265
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 <212> DNA
 <213> B.fragilis

<400> 1265
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<210> 1266
 <211> 675
 <212> DNA
 <213> B.fragilis

<400> 1266
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<210> 1267

<211> 519

<212> DNA

<213> B.fragilis

<400> 1267

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<210> 1268

<211> 1140

<212> DNA

<213> B.fragilis

<400> 1268

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attgattttt	tactaatttc	cagcatattt	tccaatctgt	cactcaaaat	cttttttatt	180
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<210> 1269

<211> 468

<212> DNA

<213> B.fragilis

<400> 1269

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<210> 1270

<211> 315

<212> DNA

<213> B.fragilis

<400> 1270

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cagaaactct	accgctggat	gcgtaaaaac	accgcctga	cacaggcact	gtccgaagtc	240
aattacaaca	aataccgcca	cagcttcctt	aaacgggaag	tccggctgat	cgtgtattac	300
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<210> 1271

<211> 639

<212> DNA

<213> B.fragilis

<400> 1271

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ggtattctgt	acatcatcgt	ggctctctgt	ctgctattcg	caccgggaag	cagttacatt	180
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<210> 1272

<211> 1449

<212> DNA

<213> B.fragilis

<400> 1272

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caattggctg	atattgccga	tctatatgcc	tccgaacgta	agtttaagga	agcccaggag	180
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<210> 1273

<211> 762

<212> DNA

<213> B.fragilis

<400> 1273

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gaagaactgg	gagaagccta	cgagaatgca	ggggaaaaga	ttatggagct	gattcagaaa	180
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gcattgcccc	ccatcataac	ggtgactgaa	gacgccatgc	gcaactgtcc	ccgtgccatg	660
cgcggaagcca	gcctggcact	cggagcttcg	cagttggcaga	ccatttataa	agtagtgatt	720
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<210> 1274

<211> 1275

<212> DNA

<213> B.fragilis

<400> 1274

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gtcgagcacg	atatagtcga	agtgcctttt	gaggatatcg	atggcttcca	ccaatgcctg	360
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1275

<210> 1275

<211> 189

<212> DNA

<213> B.fragilis

<400> 1275

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gaaaaccctg	tgaaactctg	tgtactctgt	ggtgagccac	cccatagtaa	tattctaaaa	180
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<210> 1276

<211> 462

<212> DNA

<213> B.fragilis

<400> 1276

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<210> 1277

<211> 789

<212> DNA

<213> B.fragilis

<400> 1277

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<210> 1278

<211> 450

<212> DNA

<213> B.fragilis

<400> 1278

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ggcctgttca	gcagcaaggt	tattgaagag	ggatatgtgc	tgccgctgaa	caaagataat	180
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<210> 1279
 <211> 1413
 <212> DNA
 <213> B.fragilis

<400> 1279						60
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<210> 1280
 <211> 597
 <212> DNA
 <213> B.fragilis

<400> 1280						60
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<210> 1281
 <211> 651
 <212> DNA
 <213> B.fragilis

<400> 1281

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<210> 1282

<211> 492

<212> DNA

<213> B.fragilis

<400> 1282

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<210> 1283

<211> 858

<212> DNA

<213> B.fragilis

<400> 1283

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<210> 1284

<211> 444

<212> DNA

<213> B.fragilis

<400> 1284

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<210> 1285

<211> 2046

<212> DNA

<213> B.fragilis

<400> 1285

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<211> 1200

<212> DNA

<213> B.fragilis

<400> 1286

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<210> 1287

<211> 1863

<212> DNA

<213> B.fragilis

<400> 1287

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<211> 969

<212> DNA

<213> B.fragilis

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<210> 1289

<211> 276

<212> DNA

<213> B.fragilis

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<210> 1290

<211> 630

<212> DNA

<213> B.fragilis

<400> 1290
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<210> 1291

<211> 864

<212> DNA

<213> B.fragilis

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<210> 1292

<211> 1071

<212> DNA

<213> B.fragilis

<400> 1292

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<210> 1293

<211> 1227

<212> DNA

<213> B.fragilis

<400> 1293

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<210> 1294

<211> 345

<212> DNA

<213> B.fragilis

<400> 1294

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<211> 2820

<212> DNA

<213> B.fragilis

<400> 1295

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<210> 1296

<211> 1701

<212> DNA

<213> B.fragilis

<400> 1296

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<210> 1297

<211> 1926

<212> DNA

<213> B.fragilis

<400> 1297

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<210> 1298

<211> 1479

<212> DNA

<213> B.fragilis

<400> 1298

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<210> 1299

<211> 669

<212> DNA

<213> B.fragilis

<400> 1299

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<210> 1300

<211> 999

<212> DNA

<213> B.fragilis

<400> 1300

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aacggtgatt	tttctgccct	gttgcaagggt	tcgggtgaca	ttgacgtgaa	ggggcagctt	540
cgtgctaaaa	gtgtgaatct	gaatttgcaa	ggctccgggtg	atttgaaagt	agcagggtgt	600
accggaagcg	aatcagtgcc	gatgcttcag	ggatcgggtg	acttgaaagt	cgggaagtact	660
aatatcacat	cgactgtaac	ggcaaagttg	agtggctcgg	gtgatatgga	tgtattggat	720
attcgtgcca	atagcgtatc	cggacagttg	gatggctcag	gagacatgac	tttgtcgggt	780
tctgcttgta	atgccacgtt	ggttttgaac	aggtcgggag	aactcagtgcc	gcgaaaactg	840
gatgctgaaa	atgtaacggc	tcattgtcaat	ggatcagggg	aaatctcctg	tacagccacg	900
aagacacttg	aaaccaatat	ccaaggtagt	ggagaaaattt	cttataaagg	aaatccgagt	960
atacggtcga	caggtaagaa	tcattctgaac	agactctaa			999

<210> 1301

<211> 1509

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (12), (13), (14)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1301

ttgacgggtct	tnnnatggag	cgggtccttc	cagccccgtg	gtgaagacta	tgaacagtca	60
ccctattatc	tcaacctcaa	cggtaaattg	aaattccatt	gggtgaaaaa	tcctgatctc	120
cgtccgaaag	acttttataa	accctcattc	tataccggag	gctgggcaga	tatcaacgtt	180
ccgggaaact	gggagcgcca	gggatacggg	actgccatct	acgtaaatga	gacttatgaa	240
tttgatgaca	aaatgttcaa	ctttaagaag	aatccccctc	ttgtgcctta	taaggagaac	300
gaagtaggat	cttatcgccg	tacttttact	gtgcctgccg	gatggaaggg	ccgccgggta	360
gtactctgct	gcgaagggtg	aattttcttt	tattatgtgt	gggtgaacgg	acattttctc	420
ggttacaacc	aaggttccaa	gacagctgcc	gaatgggata	tcaccgatca	gttgggaagaa	480
ggtgagaata	cgattgccct	cgaagtatat	cgctggagtt	caggttccta	tctggagtgt	540
caggatatgt	ggcgtctgag	tggatttgag	cgtgatgtgt	atctgtatag	tactcccaaa	600
cagtatatag	ccgattataa	ggtaaacgca	actcttgaaa	aggaacgtta	taaagatggg	660
attttcggac	tcgacgttac	ggtcggaggg	cctgcagacg	gtgtggcatc	cgtatcttat	720
acactgaacg	atccactcgg	acgtcctgta	ctgtcgggtg	agatgcctgt	caagtcgcgc	780
ggactgagta	acttcatcac	attcggagaa	cagcgcctga	aggatgtgaa	acgttggaat	840
gccgagcatc	ccaatctcta	caccctcggt	ttggagttga	aaaatgcagg	aggacagggtg	900
accgaagtca	ccggttgtga	agtcggtttc	cgtacttcgg	agatcaaaga	cggtcggttc	960
tgcatacaacg	gtgtgcctgt	attggtcaaa	ggaaccaatc	gtcatgaaca	ttcgcagttg	1020
gggcgtaccg	tcagcaaaga	gctcatggag	caagatatac	gtctgatgaa	actgtataat	1080
atcaataactg	tgcgcaactc	acattatccc	actgatccgt	attggtatcg	gctgtgcgat	1140
cgttacggac	tttatatgat	cgatgaagcg	aatatcgagt	cacacgggat	gggatatgga	1200
cccgttcgcg	ttgcaaaga	cagcacttgg	ctgacagcac	acatggatcg	tacacatcgc	1260
atgtatgaac	gttcgaaaaa	tcacctcgcc	atcgttatct	ggtcattggg	caacgaagcc	1320
cggaaacgga	atcaatttcg	agcgtaccta	cgattggctg	aaatcggtag	agaaaagccg	1380
tcccgtccag	tacgaacgtg	ccgagcagaa	ttacaatacc	gatatctatt	gtcgaatgta	1440
tcgcagtgtc	gacgaaatca	aggcctatct	ggcccagaaa	gatatctacc	gtccgttcat	1500
tctttgtga						1509

<210> 1302

<211> 354

<212> DNA

<213> B.fragilis

<400> 1302

cgaggaagaa	tgaacaact	gatacccgca	cttttcgccc	taggcgcagt	aatggccctc	60
atagggggccg	ctgtctttat	caccggatgg	gtctatgcac	cttatatata	taccatcggg	120
gcagggttttg	tcgcattggc	tcagggtgaat	actccgcttc	gggctaaaag	caagacgctc	180
cgccgactgc	gtatccagca	gatcttcggt	gcattagcac	tgatattgac	aggagctttt	240
atgttcacca	cacgtggcaa	tgaatggatt	gcctgcctta	ctatcgcagc	catactggaa	300
ttatacacgg	cattccgtat	tccgcaggaa	gaagaaaaag	aacttttcaa	atag	354

<210> 1303

<211> 1068

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (231)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1303

gccttcagga	cctggtggcc	atttatacga	atgaagcggg	agagcgtatt	gtttcaggca	60
gcccgcacaa	accacttaaa	cttacttttt	ccattgtttc	gggcaaatac	cagtgcgaag	120
tatccggtaa	gcaggtttat	atcgaggcct	atcacagtc	tttctaaagg	atttgcaaaa	180
ggttttctttt	gcattaaaaa	agaaaccgtg	gataagattc	agcaattttt	nttcgataag	240
tggggcattg	aggaaaggag	ataccaccag	ctcctttcca	ttctgttgcc	cggtctgaaa	300
aacggcaacc	tagcgtcggg	ggaacaatat	ctggggggcc	agcatataga	ggcctatgcc	360
gccgtcccct	atgtagccga	ccgatgggaa	ctgggatgac	cctccctccc	tcaaggagcg	420
gtagtggtgc	ttacctgtga	aggcgtgctg	tatagctggg	agacctaccg	gctggagaga	480

tatatattccg	ccgcgatagc	caacgaccgc	atatcgggtg	tcgttctgtt	tgtgaacggg	540
cccgagggtg	tgattacgcg	tgtggatgtc	ctggaaaagc	ttatacggca	gtccccaaa	600
cccatagtgg	cctatatcac	gggcgtatgc	gcttcggcgc	atttctgggt	cgtttcgcga	660
tgcgcacgca	gattcgtctc	ctcgcccatg	gatgaaatcg	gctcctgcgg	ggtaggtctac	720
actttccaga	gcttcaaggga	gtattacgcg	caaattgggga	ttgagatcga	ggacatttac	780
cccgacagtg	cggacctgaa	gaaccgcgcc	tatcgcgaca	aggaagaaaa	gcaggatgac	840
accttaatta	aagagaacct	gtcgttttac	caccatcttt	ttgcacagac	catcgcccga	900
aatctgggag	tgaagtatga	cgcgaggat	ccccgtttca	gagggcagac	tttctttgcc	960
gatacggcac	tggccaaggg	gtatgtggat	gcctacggaa	gcctggagga	tgccatcctg	1020
tgggtatccg	cccagaaaaac	cgtaaagcgg	gctaacaaga	tgatttaa		1068

<210> 1304

<211> 474

<212> DNA

<213> B.fragilis

<400> 1304

cggaataatg	cggagtattt	gaaaatcaat	aagttataca	atatgaaaac	aataaaaaga	60
ccctataccc	ccgtttgtga	tctggagttg	gttcgggtgg	agtgtatcag	tgattttgca	120
gtcatcctgc	cgcgcgcttt	tattgccgtg	cgggatgggt	cttatcgcat	tcctgttatt	180
ccgggatcat	tactcccgg	agtcgaatcc	gagcaggcgg	attcaggaac	tatatattat	240
aatgtagggc	atagcttcga	ggttgccctt	acaggaccgg	acagccagga	gttgttatct	300
gccatgagcc	ttcaggacct	ggtggccatt	tatacgaatg	aagcggggaga	gcgtattgtt	360
tcaggcagcc	cgcaaacacc	acttaaactt	actttttcca	ttgtttcggg	caaataccag	420
tgcaagttat	ccggtaaagca	ggtttatatc	gaggcctatc	acagtccttt	ctaa	474

<210> 1305

<211> 825

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (752)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1305

caagatgatt	taataactcac	tataaaagta	aatttgttta	tgaaaaatta	tttcgcatca	60
ttcattccgg	ccgtaaaggc	cattctgggt	atcgaggcct	ggagtaagga	cgccgacaag	120
aaagacgcgt	tactggaaga	gcaaaagcag	aaacttaagg	cattgaattt	caatgacacc	180
tttatcaatg	gtttttgtga	ggccctgaag	gatggattcc	cggaggattc	ttcccgcaag	240
gacggggagt	cgggcacgaa	aggcagtgg	cctgaccca	atacctccaa	cgagtaata	300
caaggattac	tggtctgatat	gactgccaag	ctggttacgg	cccaggagga	aatcgctgtg	360
cttaccaaag	agaaagggga	actttcacag	gaggtatccg	ccaaacaaac	agaaatcacc	420
ggttttgcaga	ccaagattca	gaccctttcc	ggccttgccg	agcaagacgg	ggggaaaggc	480
ttccagcatg	cacgtctgga	accggacgct	aaagacattg	tcattgaattg	ggatgacgaa	540
aaacaactgg	gcgccctctc	gggggagatg	ttcgcaatgg	gaccgcctta	taaccagcgc	600
ctgcgcgcaa	agatgcttta	ccgcaagggg	ttgacccgtc	aggtgcccac	tgccagtctg	660
atcgattact	ccgcctgaa	agaagacctg	ggagccttct	accgcatccc	ctggcaggag	720
cgtttacagt	ctttcctgac	cctgcttcct	tncatcgaga	gtattttccc	cgctgaattc	780
gggatatcag	gacctgggcg	tgcttataaa	catttggtgt	ggtga		825

<210> 1306

<211> 507

<212> DNA

<213> B.fragilis

<400> 1306

aaaaaacatc	aacttatgat	aaccacgaaa	ataacagtag	agccgcacct	ggctcaatat	60
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tgctacgcc	aatattcttc	cgatccggaa	ggcagcatgc	cggtcgctt	tgccgaccat	120
ctggatgtat	accatctggt	ttataacctg	ctggaaaaac	gcccgggttaa	ctgtccccgg	180
gataatggca	atcttgagat	cgtcttgccg	gaccgcaggc	aggggtgacgt	ccccgggtggc	240
aaatccccgg	agcgtttcaa	ctatctgggc	cagcgcagcc	aggggtatcat	caataagaag	300
ctaaagctga	tgatgcgcgc	cgagctccat	gactttattg	acgagaacaa	gcaccgggttc	360
ggatcgacc	agcttcagtc	agtccactgc	tttatgaaga	agtactgcat	tgacagctta	420
agcgaggatg	ctcttctgaa	agactaccaa	cgttggcgtg	accgggtaag	acgttccagc	480
cttaagcggc	cctacaagaa	aaagtag				507

<210> 1307

<211> 618

<212> DNA

<213> B.fragilis

<400> 1307

aaaaagatgg	aagtagaact	agtaaaaacc	accctgcatg	cggttctgag	cccgtctcag	60
ttacagaaac	cctgtgtccg	aaagaaggag	ctgacgcctc	tccagatctc	gttaaaaact	120
ggatcgacgg	cctctcaatt	ggtggatgaa	tggggcgagg	caattgcccc	actgaacatg	180
ggcgccccac	tttacgatgt	cgccgcaaac	ggagaaatcc	ctacattggc	tgatgtgggt	240
gtggtcttcg	gtaattcgac	atccgttcgg	attatcacia	gccatctgga	atccgttctg	300
aagtacgccg	gcgttgaatt	gagccgcgag	cagatggcgg	aaaccgcgct	ggcgatactt	360
tcaggatact	ggttcctgaa	cctggccgag	ctctgcattt	tctttaccgg	ccttaagaac	420
ggaagtgtg	ggcagcttgt	ctggggaaa	agcctaaaca	atcaggcggt	catggtcgcc	480
ctatcggatt	tctgcaagga	acgccgtgaa	gtgatcattc	gcaaagagac	agagcggatg	540
ggcccggggc	tgtggaaaaa	ggcttttcca	gaacggagga	ttttgccggc	ggtatttgtgt	600
tgggcgtaca	gggtatag					618

<210> 1308

<211> 882

<212> DNA

<213> B.fragilis

<400> 1308

aagtcccgtg	gaaatcttcc	aaggctttgc	gtccggcttc	gaactccata	cctaatttgc	60
ctgctgtgta	atatctatcg	agataaagg	tattacatcg	agtgggatga	agatttgcct	120
tttgtggtgg	ctgacaccat	tggtagacc	gagggcgag	tagagggaag	agtaaagaaa	180
gccgtgcaag	tgggattctt	cgacaagtca	ttgttcgacc	aatacaggat	ccttacctca	240
aacggatttc	aaaaccgctt	caaaagcgcc	gtttccagac	gtgaaggatt	tgagtatatt	300
cccgaatatc	tggtttctgt	atgcaataac	cccattcaat	cgaatttctg	tatacagaaa	360
ccctctctca	ccgagtttct	gtatgcagaa	accagcccca	accgagtttc	tgcagcaaaa	420
agtacacaaa	gtaaagtaaa	ggaaagaata	tctccccctc	ctcacgcgcg	tgaaggaggc	480
atttccggaa	tcagactttt	ttcagacaag	tctttaaccg	agtgttacgg	ggagctgaaa	540
gcgaatatcc	cctggatgga	gcaattctgc	atgaacatcc	gtctggatta	tccggatttt	600
accccgagc	tgttttatgg	ctttctggac	aggttcttcc	gtaaaactcca	gaatgaaggg	660
gaaatagtca	agtcacccaa	ggacgccatg	tcgcattttg	caaactgggt	gaatattgaa	720
cttgaaaaat	taaaaaaaga	tggaagtaga	actagtaaaa	accaccctgc	atgcggttct	780
gagcccgctc	cagttacaga	aaccctgtgt	ccgaaagaag	gagctgacgc	ctctccagat	840
ctcgttaaaa	actggatcga	cggcctctca	attgggtgat	ga		882

<210> 1309

<211> 807

<212> DNA

<213> B.fragilis

<400> 1309

aaaaacaata	taccaatgat	agtagcatgg	ttttcttgcg	gtgtaacatc	cgagtcgct	60
tgtaagattg	cacttagtct	atagcatgac	gtgcagctct	attatattga	aactggctcc	120
gggcatccgg	acaacgctcg	ttttctatct	gattgtgaaa	gatggtagca	tcagcctatt	180
cacattatcc	gaagcgacaa	atacacttgc	gtagctgatg	tcctacggaa	aggttttatc	240

aatggtgctgc	atggtgctgc	ttgcactctt	gaacttaaaa	agaaagtccg	gtacaagttg	300
gaaaaggaac	ttggttcttg	ggacgggtcaa	gtttggggat	tcgattatga	accaaaagag	360
attaaccgag	ctatccgatt	aaagcagcag	taccagaca	caaagccact	gttcccgtt	420
attgaaaagc	agattacgaa	gccggatgcc	atggggatac	tttggaagc	agggattgaa	480
atccctgcta	tgtacaagat	gggctacaat	aacaacaact	gcatcggttg	cgtgaaaggt	540
ggtatgggat	actggaataa	aatccggaag	gatttcccg	aagtgtttgc	tcaaattggcg	600
cagattgagc	gtgatgttgg	agctacctgt	ctgaaagata	aagatgggcg	tatcttcttg	660
gatgaactac	cgacatggcg	gggcatccca	gtggaagaga	ttataccgga	ttgctcgctt	720
atctgccaaa	ttgaatttca	agagatcatc	gacaggcagg	taaaacgagt	tttgaaagga	780
gaaattagta	ttaacgatgt	agcttga				807

<210> 1310

<211> 189

<212> DNA

<213> B.fragilis

<400> 1310

accatgaaag	tcgtcatcta	ttggcagaag	aaatccaccg	tccaccatcg	ccgccggatc	60
cgtgacagat	tcaggcttcc	cgatgggatg	accattaacg	gtgaaactcc	cgccgatgtg	120
aggccggagg	atatgaagga	actacagacc	ctggaagaaa	tgggttatat	taaattaaga	180
aacaagtaa						189

<210> 1311

<211> 348

<212> DNA

<213> B.fragilis

<400> 1311

agtgatcatt	cgcaaagaga	cagagcggat	gggccggggg	ctgtggaaaa	aggcttttcc	60
agaacggagg	atthttgccgc	cggtattgtg	ttgggcgtac	agggatatagc	cgtgaaacgt	120
gaacggggcca	aggccgactt	taatgctttt	ttggagttht	tcccctgtct	gccatcagga	180
tatgaccgga	tagccttatg	gaaggcctgg	ggcggtgatc	cggatgccat	caacttactc	240
ttcggcaaca	atcctcccgg	agtggaagcg	gcggcggaat	ctgtcggcag	atacctgtgt	300
gattacaatg	tctatcaggc	ccgtgtaaag	gccaaagcct	ccttgtaa		348

<210> 1312

<211> 192

<212> DNA

<213> B.fragilis

<400> 1312

gaaacgagtt	cacatttcaa	cactttttca	ggagattcga	ccgtacgtcc	acatccccag	60
aacaataaca	cccaaaccgg	acaaaataac	aacaagcctt	tcagtctctt	cctgtctaata	120
aaattaaaag	aagcgtcat	aatcaacatt	ctgttctttt	accatcacat	tccaccacc	180
gagtctctgt	aa					192

<210> 1313

<211> 243

<212> DNA

<213> B.fragilis

<400> 1313

ataaaacaat	caattaaagt	atthttatcac	caagcaacca	cttattttaa	taaaatcaca	60
gactgtaata	acagctttcc	agcttatttt	ccttgatat	ctccattatt	tcacatacct	120
ttgtctaaaa	ttaaggat	aaaacatccg	gatgttatat	atcaaaacac	ccggatgttt	180
tatatcagaa	catccgatg	ttatctatta	aaacatccgg	atgttttcag	acataactta	240
tag						243

<210> 1314

<211> 195
 <212> DNA
 <213> B.fragilis

<400> 1314
 cagttttttac cctggttttaa gcttaattttt cccccgtcac tgtctaaaaa atgccgtaaa 60
 cttgcatcat cgaaaaacaa cgaatattca caattttaaa agcaacgtta tgaaaagttt 120
 aagcttcaga aaagatttaa ttggagttca ggaagagcta cttcgctttg catacaaact 180
 aacaaccgac cgtga 195

<210> 1315
 <211> 1467
 <212> DNA
 <213> B.fragilis

<400> 1315
 gtctataata cgaaagggaa taaaatagga ttttatatgg caacaacaga ttttatcgcc 60
 gctattgaac tgggttcac gaagatagcc ggtatagccg gaaagaagaa tagtgatgga 120
 agtatacagg tattagctta tgccagggag gattcgtctt ctttcatccg gaaaggagtg 180
 atctataatc tggataaaac ggcacaaagc ctgacttcaa tcatcaataa actggagggg 240
 gctctcaata actcaattgc caagatctat gtgggtatcg gcggaacaatc gctccgtacg 300
 gtgcgcaatg tggtaagtcg tgatcttgaa gaagaaacca ttattttctca ggaactggtc 360
 gactcaatct gtgatgagaa cctcgagata ccactgatcg atatggatat actggacgtt 420
 gctccacaag aatacaaaat aggaacaat cttcaagccg accctgtcgg ttagccgga 480
 agccacattg aagggcggtt tctgaatatt gtagcacgtg cttcgctcaa gaaaaatctg 540
 gaacgctgct tcgaacaggc taaaatagaa atagcagacc tattgatctc acctctgggt 600
 actgccgatg cagtactgac ggaaagtga agacgctccg gctgcgcaact gatcgacttt 660
 ggtgccgaca catctaccat ttccatttat aagaataata tcctccgctt cctcactgtg 720
 ctgccgttag gaggaacag tattacccat gacctcgtct ctcttcagat ggaagaagaa 780
 gagggcgaac gcctgaaaat cagatatggc aatgctttct acgaagagga agaaggcgaa 840
 gaacctgcta cttgccaat ggaagacgga aatagaacga tagagttagg taaactgaat 900
 aatatcatcg aggcacgtac cgaagagatt atcgcgaaac tatggaatca gattcaactt 960
 tcgggatatg acgacaaact tctggccgga ctcatcatca cggagggggc cgccaacctg 1020
 aaagacctgg acgaggttct acgtaaacgg agtaaaatag agaaggtgag aaacgcacgt 1080
 ttcgtacgca ataccatcca tgcagacgaa gacgttgtga agaaagacgg tacacaaaac 1140
 accttattcg gactgcttat tgcgggcaac gaaaactgtt gtttatttga aacacccgct 1200
 ccacagccgc atatacaacc tcagccccag cccgaaccgg tgaacatgtt tgaagaagac 1260
 gaaagtctga aggaacagga agccgctgcc cgcgctgcca agaagaagaa agaagaagaa 1320
 gagaaaaagc ggaaagaaga agaaaagcaa cgcaagctgg aagagaagaa aagaagggaa 1380
 gaagagagaa gaaataaacc taactggttt aaatcgactt tcgacaagct ctctaataa 1440
 attttttctg acgaagatat gaaataa 1467

<210> 1316
 <211> 1470
 <212> DNA
 <213> B.fragilis

<400> 1316
 aaacattgca cacctggctt taccggattc tgctgtcgtt attgcaaaag aagttataaa 60
 attagcgcaa caatcatgaa tatagaaacg attcaatctg tatattttgt cggggcaggc 120
 ggtatcgga tgagtgccct cgtccgctat tttctttcta aaggaaaagt agtggcaggc 180
 tatgaccgta ctcccagtga actgactcaa catcttatag aagaaggagc acagatccat 240
 tacgaagaga atatcgatct cataccggag gcttgcaaag acaaagctac cacattggta 300
 gtectgacct ctgccgtacc tcaggaacat gccgaattaa cttacttccg tgataatgga 360
 ttcgaaatac agaaacgtgc acaagtactg ggcaccatta cccgttccag caaaggactt 420
 tgtgtagccg gcacacatgg taaaccact acctcaacga tgacagccca cttgtttcat 480
 caatcacatg taggttgtac tgcttttctg ggaggtatct ccaaaaatta cggaacgaat 540
 ctactactct cttcaaccag cccttatacg gtgattgaag cagacgaatt tgaccgttca 600
 ttccattgggt tgtctcctta tatgtctgtc attaccgcaa ccgatccgga tcactctggat 660

atztatggca	ccgaacaggc	ttatctggaa	agctttgaac	actacaccac	actgattcag	720
cccggaggag	cactgattat	ccgcaaaggc	atctccctac	agccgaaagt	gaaagaagga	780
gtgaagatgt	atacttactc	acgtgacgag	ggagactttc	atgctgagaa	cattcgcac	840
ggaaacggag	aaatcttcat	tgacttcgta	gggctgaca	ttcgtatcga	caacattcag	900
ctaggagtac	cggtaagtat	aaatatagag	aatggtgtcg	ctgcatggc	acttgcccac	960
cttaacggag	tcacacctga	agagatcaaa	cagggaatgg	ccagtttccg	gggtgtggac	1020
cgccggttcg	actttaaaat	caagaataac	cggattgtat	tcctgagtga	ctacgcacat	1080
catccatccg	agattaaaca	aagcgtgatg	tccatgcgtg	agttgtaccg	ggacaaaaag	1140
atcactgcgg	tttttcagcc	acacctctat	acccgtaccc	gcgacttcta	caaagatttt	1200
gccgacagtc	tgtctttact	cgatgaagtg	atactggtag	atatctatcc	ggcgcgcgag	1260
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<210> 1317

<211> 765

<212> DNA

<213> B.fragilis

<400> 1317

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aagacctttt	acgaaaaagg	gctcaaccag	gtgggatgga	ataaatattc	gcgtatcagc	720
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<210> 1318

<211> 2010

<212> DNA

<213> B.fragilis

<400> 1318

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<210> 1319

<211> 1308

<212> DNA

<213> B.fragilis

<400> 1319

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acttataaaa	gtggcgacca	ctggggaccc	atcacacaac	attccatcat	cctgatggta	180
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acaggtgacc	gtgtgaacgg	agccgcccgc	tggtatgagtt	ttatgggggt	acagttccag	360
ccttcagaac	tggccaagat	ggcagtaatc	atcgcggttt	ctttcattct	atccaaaaag	420
caggatgatg	aaggggccaa	tccgaaagct	tttaagtata	tcattgatact	gaccggactg	480
gtatgtatgc	ttatcgctcc	tgaaaacctt	tcgacagcta	tgctgttggt	cggagtagta	540
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gccc aaaagt	gcgaacgtac	attcccggca	ttcctcgta	tgggtatttg	cttgatgttg	1020
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cctctgctca	cccagagtga	aggaaatgag	gcgattgcaa	gcgaggcaca	gactgcggcc	1260
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<210> 1320

<211> 408

<212> DNA

<213> B.fragilis

<400> 1320

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aaagacaagg	gaaacgatta	tacggaaata	gaagaactgg	tacggggagaa	atgctcggca	180
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cctgtagccg	aagtacagac	cggcatgaag	gatgccgtag	aagcagctta	caagctggcg	300
aaaaagggag	aaacagtatt	gttgagtcca	tggtgcgcct	cctttgacct	tttcaagagc	360
tatgaagacc	gtggcgaaca	gtttaagaag	tatgtaagag	aattataa		408

<210> 1321
 <211> 201
 <212> DNA
 <213> B.fragilis

<400> 1321
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 atttttaatt cttctttttt cactcttcat tcttctctaa ctcagatatt ttcactatat 180
 ttgctctgtt attataatta g 201

<210> 1322
 <211> 546
 <212> DNA
 <213> B.fragilis

<400> 1322
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 gaagacatta aaaacgcaat gaaagcgaaa gataaagtag ctctcgaaac tctcagaaat 180
 gtaaaaaagt tcttttttggg agctaaaaca gctccgggag ctaatgacac ccttacagat 240
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 aaaaaactgg caggattggc cgaaggacgc gcgatctcag ctaaagtaaa agagttattg 540
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<210> 1323
 <211> 204
 <212> DNA
 <213> B.fragilis

<400> 1323
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 gcccggaagg gaaaaaactt gggttttgtt ctgaagcctt ctgaaagggg cggagaagac 120
 aaggcgggtca tagtcccgtt gaaactccga acggttttcc tgacgctctt cgtgaaactc 180
 ttccatgccg aaacgcttag ctga 204

<210> 1324
 <211> 1032
 <212> DNA
 <213> B.fragilis

<400> 1324
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 aaagaagaag aaacaacata tcacgtaccg gtactgctaa aagaaagtgt agatgccatg 180
 aacatatctc ccgacgggac ttacgtagat gtcacctttg gcggtggcgg acattcccgc 240
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 tttcttgaaa tcataaagcc tctcttcggc cgcgaaagag agaaaaaaga gttagctaaa 720
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caggactttt	ttggcaattt	acagacacct	ttccgcctgg	taaacaataa	agtgatcgta	960
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gagaagaagt	aa					1032

<210> 1325
 <211> 543
 <212> DNA
 <213> B.fragilis

<400> 1325						
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gatttcatat	tctgtctgat	agattttacc	gttgcggaat	acctgggtag	tcatgtgtgt	180
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agagttgtcg	acaatttcat	ataccaagtg	atgaagtccc	tttacgctga	tgtcaccaat	480
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<210> 1326
 <211> 1329
 <212> DNA
 <213> B.fragilis

<400> 1326						
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cggaagggca	tacacgacgt	aacattcggt	ctctgcaata	ccgacaacca	agcattgggt	180
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<210> 1327
 <211> 516
 <212> DNA
 <213> B.fragilis

<400> 1327

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tccggcaatg	aaacttatgt	agtacgtaat	attgtgttaa	gcgtggaagg	aggtgaagag	480
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<210> 1328

<211> 987

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (928), (942)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1328

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gaaagcggtg	cgggagcagc	cgttctggcc	aaagtaaaag	gattcgatac	tttcgtatcg	240
gatatgtctg	ctatcaagga	taagtataaa	actctccttg	acggccatgg	cattgcctgg	300
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gaagtagtaa	ttaccgaccc	gatcgctntc	aatatggaac	angaacaagt	ggccctgacc	960
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<210> 1329

<211> 1359

<212> DNA

<213> B.fragilis

<400> 1329

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<210> 1330

<211> 186

<212> DNA

<213> B.fragilis

<400> 1330

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<210> 1331

<211> 627

<212> DNA

<213> B.fragilis

<400> 1331

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acaggagaac	ggttgggcat	attagaaatg	caaaaagagg	atagagtgtg	tgaaatacag	180
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tgtgataaat	gtattgatgc	tcaaatacgt	aatttgaatg	agtatgttga	ttcaatagaa	360
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<210> 1332

<211> 423

<212> DNA

<213> B.fragilis

<400> 1332

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ctcttctatt	tttccttttt	tgcaaaggta	gagcggggga	gtggcaatgt	acagatagcc	360
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<210> 1333

<211> 342

<212> DNA

<213> B.fragilis

<400> 1333
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 tttatgcttt ctccatttat tgagaccctt tctactcttc tgacttatac gcccttttac 240
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 tatcttcgcg gacctcctcc tgttttttat catatcgctt aa 342

<210> 1334
 <211> 2643
 <212> DNA
 <213> B.fragilis

<400> 1334
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 gccgatacga taccggccga tactgcatcg accgatttta atagtgagat tgatatccgg 180
 aatatagaac tcaaacatgc caatcttggt ttcgatgatc ggaatacggg tatttactca 240
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 aagatagcta cttcttttac gacagatatt atgggtggaca ggcagaccgc cgtctggaaa 420
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<210> 1335
 <211> 654
 <212> DNA
 <213> B.fragilis

<400> 1335
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 aattggcttt acctgtttcc gattagtctt ttaatgatac ttctgttttag ctgtaatcag 180
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 ccaatgctat tgcgtgtaga tactgataat cggattcttg aagcattgat tccaactacc 600
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<210> 1336
 <211> 1044
 <212> DNA
 <213> B.fragilis

<400> 1336
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 aatcagatat acattattac ttatcaggac tctcctaata ttatgcggga gatcggggcgt 180
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 gttgacgaaa tccttgaaga gaaacggatg cg'tcatatcg aatcg'tt'cgt gaaaaacgat 960
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<210> 1337
 <211> 1461
 <212> DNA
 <213> B.fragilis

<400> 1337
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 atggccatgc gcggcacaca gaccgacgga catgcctaca ttccggcagc ggttgaaaaa 180
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aattatcagg	acatcaaagg	agtgaagcat	cactttgatg	ataaagaagt	tttaaaagag	1440
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<210> 1338

<211> 249

<212> DNA

<213> B.fragilis

<400> 1338

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gagccgggat	gcagcgtaaa	gtttacgaag	cccgatcagt	tgttccacga	atcaaaaatc	180
acagtccgct	tctggattgt	aaccatcgtg	ctggcagcta	ttacgattat	aacgctgaag	240
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<210> 1339

<211> 1788

<212> DNA

<213> B.fragilis

<400> 1339

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gttgccgttc	aggaaataaa	tctcactccg	gagcagcaac	gtaaatatga	ctattttctt	180
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ggtgacgtag	aaggtgcttt	gaaatattgg	aagaaagcac	tggaaactggg	cactgaatcg	1740
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<210> 1340

<211> 1170

<212> DNA

<213> B.fragilis

<400> 1340

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tccattgcaa	acgccataaa	agagttacgt	cccgatgcac	aaatcctgtt	tgtaggagcc	180
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gcagaaaaca	aactattacc	ggtagcactg	gaaacgatcg	ccaatgccga	gaagctgagc	1080
gaactcagtg	aaaacattgc	acacctggct	ttaccggatt	ctgctgtcgt	tattgcaaaa	1140
gaagttataa	aattagcgca	acaatcatga				1170

<210> 1341

<211> 621

<212> DNA

<213> B.fragilis

<400> 1341

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aaaacatcaa	aggtgggtcaa	gactacaccg	gtagaaccgg	cttatctgtc	atctaaactg	180
caactgacag	tgcccaacaa	aaacggcagt	atgaccgtaa	gcggcagcat	gaagatgaaa	240
agcggatgaac	ggatccagtt	atctgtcctg	atgccgggat	tccgctcgga	agtaatgcgt	300
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gaattaatac	ctactgaggt	atcgtccaga	tacactcaag	tagcattgga	ggatctgcta	600
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<210> 1342

<211> 453

<212> DNA

<213> B.fragilis

<400> 1342

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gcgcgccacg	aacaagctgt	atggaaagaa	gttgaggtac	tggacgaaac	ggaacgcggc	420
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<210> 1343

<211> 2172

<212> DNA

<213> B.fragilis

<400> 1343

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gtgacggaga	gttatcagca	tctgaagaat	aagaactcca	catggcgtat	ggaggtggta	180
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<210> 1344

<211> 357

<212> DNA

<213> B.fragilis

<400> 1344

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cgaagtccg	aattgatgga	aaaaagccgt	cagtcgcgga	tagaggatta	tatatcgacc	300
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<210> 1345

<211> 597

<212> DNA

<213> B.fragilis

<400> 1345

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<210> 1346

<211> 507

<212> DNA

<213> B.fragilis

<400> 1346

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gcgttacctc	caccacctcc	tacaccaatc	actttgatga	ttttcgggtga	atctgtaggg	420
aaatcgaaat	gtactatctc	gtccatatta	tattgtatta	tgaattatca	ctttattttca	480
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<210> 1347

<211> 369

<212> DNA

<213> B.fragilis

<400> 1347

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ggagcggcgg	atggtagtat	tacttgctgg	ggagctgaat	attgcaaacg	aggaattaaa	300
aaggaaggta	tagttattat	tacagagact	cgggtgggtg	aatgtgatgg	taaaagaaca	360
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<210> 1348

<211> 1245

<212> DNA

<213> B.fragilis

<400> 1348

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attccttttg agactaaaga tgagtgtttg ttatccgaaa ttgaacggat tgaattctat 300
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<210> 1349
 <211> 798
 <212> DNA
 <213> B.fragilis

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<400> 1349
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<210> 1350
 <211> 516
 <212> DNA
 <213> B.fragilis

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<400> 1350
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<210> 1351
 <211> 1059
 <212> DNA
 <213> B.fragilis

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<210> 1352
 <211> 483
 <212> DNA
 <213> B.fragilis

<400> 1352
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 aagatagaaa tctggggcga agaacgtgcg gagaaactct ttatggaacc cgaagcattc 420
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<210> 1353
 <211> 2127
 <212> DNA
 <213> B.fragilis

<400> 1353
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<210> 1354

<211> 1131

<212> DNA

<213> B.fragilis

<400> 1354

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<210> 1355

<211> 270

<212> DNA

<213> B.fragilis

<400> 1355

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<210> 1356
 <211> 861
 <212> DNA
 <213> B.fragilis

<400> 1356						
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tataatttgg	ctaattttatg	caaggcactg	gggattaagt	ttaatattgc	tatgctttac	720
ctggcggacg	agatgctgaa	aaatcgccat	aaaacattca	ccgtcacttt	cggaaaaccc	780
attccgtggc	aaacattcga	taagtcgaaa	actccggcag	agtgggcaca	atatgtgaaa	840
gatatcgtgt	ataaactgta	a				861

<210> 1357
 <211> 216
 <212> DNA
 <213> B.fragilis

<400> 1357						
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ctgccggtac	gggtaacatt	cccaggagtc	actctgttgt	tatcccgtga	agctgagctt	120
tctctttggg	acactcctct	tctcacctca	tctctccgtc	ccgaattgga	acgtatgggt	180
accgatccga	aatcggaacg	gcgatgcgtg	ttataa			216

<210> 1358
 <211> 348
 <212> DNA
 <213> B.fragilis

<400> 1358						
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cggttcaatc	aaatgcagtt	tcacccttac	ctgaaagccg	aaaagaaaaa	acagcaatgg	120
cattttcacag	cagccgtaga	caaaccctgg	tttccggcag	accaattggt	cggttcactt	180
cccaaaggat	tattcagtaa	cctggaaggt	ataaagacaa	gtggcgaact	ggcctatcat	240
ttttttctgg	atgcaaattt	tgccctgttg	aacagtctta	aaatggaaat	cgaacctgaa	300
ggaaaggaat	ttccgcatgg	aaaactacgg	ggtcacaaat	ctgggttaa		348

<210> 1359
 <211> 846
 <212> DNA
 <213> B.fragilis

<400> 1359						
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ctcttgttcc	ttctgcataa	taaaataacc	tataaaatat	cagcgcttat	gaaaatggct	120
ctttctgatt	ttgcttttgcg	gaagaaaggg	atttacggca	ttttacatgt	catcatcctg	180

ctgctttccc	tgtttctggg	catcagcadc	tcgatagata	cgtttaaggg	tatccctttt	240
tatacccaat	cggtttatat	gaaagttcag	ctatggattt	gtgtcttatt	tctgttcgat	300
ttcattctcg	agttgtttct	ttcgaaaaat	aagtggcact	atcttagtac	gcatttcac	360
tttttggtgg	tggcgatacc	ttaccagaat	attatatacct	atatgggatg	gactttttca	420
cccgaagtga	cttataatgat	tcgttttggt	cctttgggtc	gaggcggcta	tgcatgggt	480
attgtggtgg	ggtggccttac	ttataataag	gcttcaggac	tgtttggttc	ctatctgact	540
atgttgcttg	ctactgttta	cttttcaagc	ctggcttttt	ttgtactcga	acacaaggct	600
aatcccttgg	tgaccgggta	cggagatgcg	ctttgggtgg	cgtttatgga	tgtgactacg	660
gtaggttcca	atattattgc	tgtcaccgtg	acgggacgtg	tactttcggg	gttgctggcg	720
gcactgggta	tgatgatgtt	cccgatcttt	acggtttatg	tcaccagcct	gattcaaaaa	780
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aaataa						846

<210> 1360

<211> 978

<212> DNA

<213> B.fragilis

<400> 1360

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ttgcacccca	aaataaggag	aatgaaccac	gtcaccactt	atatccgcca	ggctttacac	180
gatattttatc	caccgggaga	actcaggagt	ctcacaaaaa	tcatttggtg	tgatctgctg	240
ggtcaggatg	ctattgatta	ttatctgggc	aaagatataa	cattatctgc	aaacgagcag	300
tgtgatcttag	aaagcattgt	cgaacgattg	aagaaaaacg	agccgatcca	atatattcag	360
ggcgaaacct	gtttttatgg	gtctatgttt	cgggtagctc	cgggtgtggt	gattcctcgt	420
cctgaaactg	aggagctggt	tgatctggta	gtgaaagaag	ctgcaaccgg	taccggtttg	480
ctggatatag	gaaccggtag	cgggtgtatt	gccatcagtc	tggctaaaca	tattccgcag	540
gctgtggtca	ccgcattgga	cgtatcggaa	gaggctcttg	ccattgccgg	ggagaataat	600
cgggaattga	aggccggagt	gcattttgag	aaaatggatg	ttctgtctgc	agaacctgtt	660
ggtgatgata	aatatgatat	gattgtcagt	aatcctcctt	atgttacaga	gagcgaaaaa	720
aacgaaatgg	aacccaatgt	gttagattgg	gagccagac	tggccctttt	tgtgccggac	780
aatgatccgt	tgcgctttta	tcggcgtatc	gcactcttag	gaagaaaaat	gttacgcctg	840
cacggcaggc	tctattttga	gatcaatcgg	gcttatgggtg	aagagggtct	ccaaatgctt	900
cacgaacaag	ggtacgaaga	actccgtttg	ataaaagata	tatcgggtaa	tgatcgaatt	960
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<210> 1361

<211> 576

<212> DNA

<213> B.fragilis

<400> 1361

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gcggaagaat	atcgctcgc	agaaacggga	gattacgaca	tttcagttag	tatgctgcaa	180
aaaatcgcac	gtaaatacgg	aatcgctctc	gacgctctga	tgtttgccga	agagcccaag	240
atgagtagtt	acttcttgac	ccgtgcagga	aaaggaacca	gtattgagcg	cacaaaggct	300
tataaatacc	agtcactggc	agcaggtttt	atgaaccgga	atgccgaccc	gttcattgta	360
actgtcgaac	ccaaacccga	catcgagccg	atacactata	acagtcatag	cggacaggaa	420
ttcaacctgg	tacttgaagg	ccgcattgatg	atcagtatatg	atggaaaaga	cttgatatta	480
aacgaagggg	acagcctgta	cttcaattca	aaactacctc	atggaatgaa	agcactcgac	540
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<210> 1362

<211> 185

<212> DNA

<213> B.fragilis

<220>
 <221> unsure
 <222> (166), (167), (168), (170), (172)
 <223> Identity of nucleotide sequences at the above locations are unknown.

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 aaagacagaa caacaactaa cgaaatgtcc tataaagaac aaatagattt aaaccggata 120
 cctaagcatg tagtcgtcac cgccgagtgc aatgcatgct ccattnnncn cnggacctgcc 180
 tcccc 185

<210> 1363
 <211> 927
 <212> DNA
 <213> B.fragilis

<400> 1363
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 gaggtagtcag agcaggctga tttcgggatg tatctggatg ggggagaaga gggagaaatc 180
 ctgttgccca cccgctatgt acccgaagat tgtaagttgg gagactgggtt gaacgtcttc 240
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 ggggagtttg cctgcctgga agtatcgtgg gtcaaccagt tcggagcttt tcttaactgg 360
 ggattgatga aggatctgtt tgtccctttc agcagacaga agatgaagat gcaggtaggg 420
 aataaatacg ttatccatgc ccatattgat gatgaaagtt tccggatcgt agcttcgggc 480
 aaagtagacc gttacttatc taaagagaaa gcttcttatc agcctggtga agaagtgaac 540
 atccttatat ggcagaagac agacctcggg ttttaaggcta ttattgagaa tatgtatagc 600
 ggcttgctgt atgatagtga aatatttcag actttacata ccggcgatgt actgaaagca 660
 tacgtcaagc aggtacgca agatggcaag atagatctga ttctccagaa gccgggcttt 720
 gaaaagatag atgatttttc aaagacactt catcgctaca tcacagagca tgggggatgg 780
 attggactta cagataagag tccctgccgag gagatttatg acacgttcgg tgtcagtaag 840
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 gacggcatcg agttggtacg tccctaa 927

<210> 1364
 <211> 213
 <212> DNA
 <213> B.fragilis

<400> 1364
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 gcttttgaca cttgctactt cccatggact gccgcgaac acttcaatct gagaaatctt 180
 tctgcttact atcatttgct cttaattggt taa 213

<210> 1365
 <211> 1374
 <212> DNA
 <213> B.fragilis

<400> 1365
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 gaggtaaata aggatataga gcgatttacc gttggacgtg accgtgagat ggatctttat 120
 cttgcaaagc atgatgtact tggttcgatg gctcatatca cgatgctcga aagtatcgga 180
 ttgtccacaa aggaggaatt agctcagttg ctgaccgaac tgaaagatat atatgcttct 240
 gcggagagag gcgagtttgt aatagaagaa ggagttgaag acgtgcactc gcaggtagaa 300
 ctgatgctta cgcgtcgttt ggggtgatgc ggttaagaaga ttcatacgcg gcgttctcgt 360
 aatgatcagg tgttgcttga tctgaaactt ttactcgtga ctcagatcag agaagtagca 420
 gaggctgtag agcaattggt tcatgttctg attcgtcaaa gtgagcggtta caagaatggt 480

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tgcaataaga	atcctttggg	ctccgctgcc	ggatatggct	cttcattccc	gctgaaccgc	660
acgatgacta	cggatttgct	gggattcgat	tctttaaact	ataatgtagt	gtatgcccgag	720
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atttctaaat	tggcttttga	tgcttgtatg	ttcaatagcc	agaattttgg	tttcgtgaag	840
ttgccggtatg	aatgtacaac	cggatcaagc	attatgccac	ataaaaagaa	tccggatgtg	900
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attgccaata	atctgccttc	cggatatttc	cgtgatttac	agattataaa	ggaagtcttt	1020
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attaaggtga	acgagcatat	cctcgatgat	gataaatacc	tttttatttt	tagtgtagaa	1140
gaggtgaatc	gcctggcacg	tgaaggtatg	ccattccggg	atgcttataa	gaaagtaggg	1200
ctggatattg	aagccgggtc	cttttcgcat	gacaagcaag	tacatcacac	ccatgaagga	1260
agtattggca	atttgtgtaa	tgatgagatt	tccgcattga	tgcaacgtac	catcgagggt	1320
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<210> 1366

<211> 486

<212> DNA

<213> B.fragilis

<400> 1366

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tggggccttac	cttatgaagt	gattaaccga	atcatcgatc	gtcttggtgt	cgagaagtgt	180
attgatgaag	aacgttattg	tagagcgttt	gtcaacgata	agttccggtt	tgccaaatgg	240
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gcaaaacgta	aaagtataca	tgccaaagat	gaattcgagc	tgaatgggaa	attgatctgt	420
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gagtaa						486

<210> 1367

<211> 1248

<212> DNA

<213> B.fragilis

<400> 1367

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gaaaaaggat	atgaagtgtg	tgacgcgtgt	gccaacacag	gtggcttcag	cgaagaacaa	180
ctgaaacaga	atgaagagaa	tgcttacaaa	ctgggtgctg	tgaatatatgt	cacactcgac	240
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cgctatgcga	aagagatttg	tgcggaagcc	attgcacacg	gttcgacagg	agccggtaac	420
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ttcgaagcag	actttacaaa	actaaaatac	tcttataatg	tccgactatg	gggtacttca	600
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caagtaacga	aagaggggaag	tgaacttctg	cgccttgaat	ttaagaatgg	tgaacttcac	720
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<210> 1368
 <211> 501
 <212> DNA
 <213> B.fragilis

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 acggccggaa ctaattttct gattatcgac gggcatcatt gtactgagaa aactgctgtt 180
 atagagacgg taaactcaat gatgctccaa acgggtggagg gtgtcatcta tctttttcca 240
 tgttggacac aaacaccggc tgcgttttac aggccttagag caaaaggagc ctttctcggt 300
 tctgccgatt atgacgggaa gtcagtgggc ggtctgaaaa tcttttagtga gaaaggagggt 360
 atatgcagac tgagcaatcc ttggagggga agaaaacttc gggtcaccga gaatggaaaa 420
 cccgtctccg tgaaagaaca aaacaatgtc tgttcattta ttaccgaaa aggaagcact 480
 tatacgatag taggtcttta a 501

<210> 1369
 <211> 1602
 <212> DNA
 <213> B.fragilis

<400> 1369
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 gccttctatt atcttttctc agctatcgta ttctttattc cgacatcact cgttgcggcg 180
 gaattggctg ccatgttcca ggacaaaacag ggtggtgtgt tccgttgggt aggcgaagcg 240
 tacggaaaaga aattgggatt ccttgccatc tgggtacaat ggattgaaaag tacgatctgg 300
 tatccgactg tattgacatt cgggtgctgta tctatcgctt tcatcggaat gaatgataca 360
 cacgacatga cactggccag caacaaatac tatacactgg ccgttgtgct tatcatttat 420
 tggctggcta ccttcatctc actgaaagga atgggatggg taggtaaaagt agctaaaatt 480
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 aatttcgata acgtgggtatt agcggcaagt atcttcctct ttatgcccgg tatggaaatg 660
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 gcaacaagca gcgctaccac tatcggtagt acaacttctg ccccatcgac aggttccggc 1560
 tctgtttcat ccgataagga caccacacag aaacaaagtt aa 1602

<210> 1370
 <211> 567
 <212> DNA
 <213> B.fragilis

<400> 1370
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atgcagttgg	tgaaaagcgt	atctctgagt	cgaacaaaa	acatagcccg	caaactggaa	180
gaagctctga	ttgtctggct	gatagaaaca	gaacgcctta	cctccaaaga	acgaatgtac	240
gaagtatatc	tgaatatagt	agaatgggga	ccgctcgttt	atggagtgca	ggaagcagca	300
acctattatt	ttaaaaagcg	cccatctcaa	ctgacagccg	aagaatctat	ttttctggct	360
tccattattc	caaagccgaa	gcatttcocg	aattcgttta	acaatgatat	gcaactgaag	420
gagagcctgg	aaggctatta	ccgtttaata	accgaacgat	tagtgaaaaa	aggaatcatc	480
agtgaagtgg	cagccgacag	catccgcccc	gaaattaatg	taaccggcga	ggcaaagaaa	540
gatctgcaaa	gagacagcat	acaatag				567

<210> 1371

<211> 666

<212> DNA

<213> B.fragilis

<400> 1371

aaactaaacg	acatgcgaaa	agtaatcata	actctttggt	tcttggttgt	tgcatttggt	60
gcacaagccg	gaagaatcag	tggaataaat	atccaaagct	caggtgaggc	gattcttgct	120
tttgtggatg	gcgagcaa	ctgcactccg	acggagactt	gtttcattgc	taactattcg	180
ggcaggcacc	ggatagaagt	atatgcagta	cggtatatac	cacgtaccgg	acaaagtgtg	240
aaaggcgact	tgctgtttca	ggaatgggtc	tcaaatcccc	gtatgaatat	caggggatatt	300
cgggtgggct	ataatgatcg	tcctgatttc	tgtcccgatc	gtccgggtgc	ccccggctat	360
gatgtagtga	tgaaccgtac	agagttcgac	cgttttctga	gaagtgtgaa	agacaaacat	420
ttcgactcag	accgtaacaa	gctgattgaa	actacacttg	tttcgacagg	cttcacttcc	480
gaccaatgtc	tccaattagt	aaatctgttc	agtttcgata	gtgaaaagat	aaaactgatg	540
caggctatgt	atccacggat	tggtgataaa	cccaatttct	atctgggtcat	cgaaagcctc	600
acttttcagt	cggataaaaa	caagatgaac	gaatttgtga	gaaaatacca	taatcaacgt	660
aactaa						666

<210> 1372

<211> 1044

<212> DNA

<213> B.fragilis

<400> 1372

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aacgtatctc	ccaatccaat	ggtaggagct	gtcatcgtat	gtgaaggaca	aataatcggg	120
gaaggctatc	acatccgttg	cggagaagca	catgccgaag	tcaatgcgat	ccgctctgta	180
aaggatctgt	ctttactgaa	acacagtact	atatatgtaa	gtctcgagcc	ttgctccac	240
catggaaaaa	ctcccccatg	cgctgattta	atcatagaga	aacaaattcc	taggattgta	300
atcggatgcc	aagaccatt	ttccaaagta	gcaggcaaa	gaatccaaaa	gttacgggat	360
gccggatgcg	aagtcattgt	cggagtctct	gaaacggaat	gtcgcgaact	tatacggaaa	420
tttatcactt	tccataccct	tcaccgcctt	tacatcgttt	tgaaatgggc	agaatcagcc	480
gatggtttca	tcgacctgga	acgtacggaa	ggacaacctg	tcataattatc	gactcctctc	540
acttccatgc	tggtacacaa	aaaaagagca	gagtcggacg	ctatcatggt	cggtagcgcga	600
accgcactac	tggacaatcc	ggcactcacg	gtacgcaact	ggcacggaca	caatccgggtg	660
cgaatagtga	tggaccgtaa	tcattcactc	cctcaaacct	cccatttgct	ggataacagc	720
gtatctacgc	tcgtttttac	ggaacatccc	cgtgccggaa	aagaaaacct	ggaatacatc	780
acactcaatt	accagacaga	tattctgcca	caaataattgt	ctgccctcta	tcaacgcaac	840
ctacagtcgc	tgatgataga	aggaggaagg	attcttctgg	agtcatttat	ccgttccgga	900
atatgggatg	aagtcatcat	agaaaagagc	gataaactgc	tttattccgg	tggttaaagca	960
cctgaaataa	gcgataaaat	tagttattcg	gaagaaaaac	atttctgtac	gaccttcagg	1020
cattacttga	agagaaatac	ctaa				1044

<210> 1373

<211> 759

<212> DNA

<213> B.fragilis

<400> 1373

gatatgaaac	gaatattgat	attctttttt	gtcataggaa	tcactgctat	aagcagtgtg	60
agtatggcag	ccatgagcaa	tagccgcatt	cgcaaggaga	ctcgtttcct	gaccgataag	120
atggcctatg	aactgaacct	gagcacaggg	caatataatg	atgtatacga	aatcaattac	180
gattttat	actccattcg	ttatctgatg	gacgatgtga	taaggggaga	agagtgggca	240
ctcgataaat	actatcgtac	cctggacatt	cgtaatgatg	atgtgcgttg	ggtgctgact	300
gcttcacagt	atcgccgttt	tataggggtc	gattat	atcgaccggt	ttatgccagt	360
ggtggcagtt	ggagttttcg	tatctatatt	cggtatacaa	accataatca	tttctacttt	420
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catcgaaatt	ataacacgca	tcgccgttcc	gatttcggat	cggttaacct	acgttccaat	600
tcgggacgga	gagatgaggt	gagaagagga	gtgtcccaaa	gagaaagctc	agcttcacgg	660
gataacaaca	gagtgactcc	tgggaatgtt	acccgtaccg	gcagagggaac	cagaagtacg	720
gaaaataacc	ggaggacgaa	tactgggtccg	gaagagtga			759

<210> 1374

<211> 492

<212> DNA

<213> B.fragilis

<400> 1374

ttaaaatata	gaaagaagag	ccattcggac	agaatctggt	cggattgttc	ttcttttttc	60
tttataagta	agataaataa	gatgactaaa	tttgaaagta	gtgtcaaggt	gataccttat	120
agccaggaac	gtgtgtacga	gaaacttgcc	gatcttagta	acctggaagc	tattaaagat	180
cgtttgcccg	aagacaaaagt	gaaaaatatg	agtttcgata	ctgatacact	tagtttcaat	240
gtggatcctg	taggacaact	gaccttgaga	attattgaac	gggaacccag	taaatgtatt	300
aagtttgaga	ctaccaattc	gcctctacct	tttaatatgt	ggattcagct	tgtggctgta	360
tccgaagaag	aatgtaaact	aaaggtaact	attgggctgg	aaatcaatcc	gtttatgaaa	420
gcgatggtag	agaaaccttt	gaatgaagga	ttggaaaaga	tggctgatat	gttatctatg	480
atacaatatt	aa					492

<210> 1375

<211> 981

<212> DNA

<213> B.fragilis

<400> 1375

ggacgaagag	gtatgataaa	agcaggaatc	attgggtggag	caggatatac	agcaggcgaa	60
cttatccgcc	tgcttatcaa	tcatcccgag	actgaaatcg	tatttatcaa	cagtaccagt	120
aacgccggaa	acaaaattac	tgatgtacac	gagggacttt	acggagagtg	tgacctggct	180
tttacagacg	aacttccggt	ggaagacatc	gatgtactgt	tcttctgtac	agcccatggg	240
gatacgaaga	aatttatgga	aagccataat	atcccggagg	aactgaaaat	tatagacctt	300
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aatcgtcgtg	caacctgcac	agcaaagcat	gtggctaata	cgggatgttt	cgcaacttgc	420
atccagctgg	gactgctccc	actggcaaaa	cacctgatgc	taaatgagga	cgtaatggta	480
aacgccatta	caggaagcac	gggagcggga	gtaaaacccg	gtgcaaccag	tcatttcagc	540
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aagcaatcgc	tgaacaact	ccagaacagt	tttgatgcgg	aaattgattt	tatcccttat	660
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gaagagatcg	tacgcatgta	tgaggaatat	tatgccaaag	attcgtttgt	ccacatcggt	780
gataaaaaca	tagatctcaa	acaggtagta	aataccaata	aatgtctgat	tcacctggaa	840
aaacacggcg	ataaattact	gatcatttct	tgcacgcaca	atattattgaa	aggtgcattcc	900
ggacaggctg	tccacaacat	gaacctgatg	tttaacctgg	aggaaacggt	aggcctgcgc	960
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<210> 1376

<211> 687

<212> DNA

<213> B.fragilis

<400> 1376
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 cagaaaggaa tgacacaaca ggaagtgaag gcgattcttg gaaagcccaa ttacagacgc 180
 tttgatggag caatggaaga gtgggaatat cgcgggtatc tttccaaagc agggcattca 240
 gtgatttggt ttaactttat cgacaaccgt gttgttggtg ttgatttcgt tagagacggt 300
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 tcggacatag ctcccgcttg tgactataga gccatgagaa acgatgagtt tgcccgcttt 420
 ttaaattgat taaagagtaa aacttttgat tcggaccgga cagatttcat tgagaaagca 480
 acccgctcta ccggatttac atcagagcaa tgctgcagat tgataaaact ttatagcttt 540
 gatgatgatc ggactaaggt actgaagata ctttatccga gcgtagtgga taaagataat 600
 ttttccgcag caatagacgg attggatttt ctgtcgaatc aggatacggg gaagaacttt 660
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<210> 1377

<211> 783

<212> DNA

<213> B.fragilis

<400> 1377
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 ggaaagctgg aagcactaaa gaaagaattt ccttctattg ctatcactcg caataatgct 180
 gaagctgcta ctggtgctga tatcgtgatt ctagctgtga aaccttggct gatcagaggt 240
 gtactccgag aaatgaaact aagaagcaaa cagattctgg tctctgttgc cgccgggtatc 300
 agtttctgaac aattggctca tgatgtagta gaacctgaaa tgccaatggt ccgtattgtc 360
 cccaacacag ctatcagtga attacagagc atgacactga ttgcttcgcg aaatgccggc 420
 caagaattag aaacactgat ggtcaatcta ttcagcgaga tgggtatggc aatgattttg 480
 cctgaagaca aattggaagc ggctaccgcc ctgacttcct gcggtatcgc ttacgtgctg 540
 aaatatattc aggetgccat gcaagcgggc atcgaaatgg gaatccgacc atcggtatgcc 600
 atggatatga ttgcccaatc tgtaaaaggt gccgccgaac tgatactgaa caatgacacc 660
 catccaagcg ttgagatcga caaagtgact acaccggcg gaattaccat taaaggcatc 720
 aacgaactgg agcataatgg attcacctct gccatcatta aagcaatgaa agcatcaaga 780
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<210> 1378

<211> 693

<212> DNA

<213> B.fragilis

<400> 1378
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 aattttagaga gattattcgc cgagaagttg ttgaagatta aagctattaa gcttcaaccg 120
 gcaaataccgt ttacatgggc ttccggatgg aaatcacctg tttactgcga caatcgtaaa 180
 accctttctt atcctttctt tcgtagtttt gttaagttcg agattacacg tttggttctg 240
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 gcttttagtg ctgatgcatt gaatcttccg ttcgtgtatg ttcgctctac cccgaaagac 360
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 gaagatttaa tctctaccgg tggagagcgt ttaaaagctg tagaagctat tcgtcgggat 480
 gggttgcgaag ttattgggtat ggtagctgct tatacttacg gatttcctgt tgccgaacag 540
 gcctttaaag atgctaaagt gcctttggta acattgacta attatgaagc tgtgttagat 600
 gttgcacttc gtaccgggta tattgaagaa gaagacattg caacgttaaa cgaatggcgc 660
 aaggatccgg ctcatgggga aaccggaaaa taa 693

<210> 1379

<211> 1377

<212> DNA

<213> B.fragilis

<400> 1379

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accatacacg	catttgcact	tgacaccata	catggggtaa	actataaatt	tacaattgac	180
caacttggtc	cogatggagt	aggacttatt	tataaccagg	attcactacc	tgtaggctcc	240
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tcaactgtag	tagacaaaaa	taactttatc	tgggtaatat	ggagtaacgg	tggtgccaac	1320
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<210> 1380

<211> 612

<212> DNA

<213> B.fragilis

<400> 1380

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gcaaaagtac	gcggaaccgg	aatagcagaa	cgtacacacg	agtacgtagc	caccaaattg	180
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cggggattag	gactggccaa	acgtatcaaa	caagcctctt	tccaattggc	tcgtttacga	360
tggcccagag	ctaaaatatt	cagtctgacc	agcggcgcag	cgtgatgaa	aatgaatacg	420
gaattgggat	atgtaccggt	cacttttaac	gagctgaccg	acgacgaagc	cttttggaaa	480
ggatgtgaag	ggtgcataaa	ccatgaaata	ctgatggcga	aggaccgtaa	attctgcatc	540
tgacccgcta	tgctatatga	tccgacagat	ccgcataaca	taaaaaaaga	acaagaaaaga	600
aataacattt	aa					612

<210> 1381

<211> 1134

<212> DNA

<213> B.fragilis

<400> 1381

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gccgttatct	ctatcgga	tgctcatccc	cattatgttg	acatgattag	caagcagggtg	180
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gaagcaaatg	aaaacgcgtt	gaaactggct	tcgttccata	acggacgtac	caaagtgtac	360
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gaggctgcga	aaaccgaatt	ggcaaaaagaa	gatattttgtg	ctgtcatcat	tgaagggtata	540
cagggagttg	gcggtatcaa	aataccgact	cccgaattcc	tgcaagagct	ccgcaaagcc	600

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<212> DNA

<213> B.fragilis

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<212> DNA

<213> B.fragilis

<400> 1383

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<212> DNA

<213> B.fragilis

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<212> DNA

<213> B.fragilis

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ctgtataact	cgttgccctaa	ccatctgaat	cctgagagtg	ttcgtggtaa	tacggcttct	900
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<210> 1394

<211> 867

<212> DNA

<213> B.fragilis

<400> 1394

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tggcagttga	ctgtgaccga	gaattccgaa	cagtttacc	gatacatgca	aaatatgcgt	660
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<210> 1395

<211> 447

<212> DNA

<213> B.fragilis

<400> 1395

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ttaatgccat	ccttaccatt	ggcaccatct	ttaccatatg	cacgaatacc	ggtagctttc	180
ccattaatat	accagttccc	attggtagcg	attattacct	ctggcgatct	tccatcttta	240
cctatcgag	cctttccggg	atcttttcca	ttgattacc	aatttccatt	ttctccaatt	300
gtaacagtag	gtgttggtcc	tgcaactcct	tcttcacctc	tggaagggtt	tctgtatct	360
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<210> 1396

<211> 291

<212> DNA

<213> B.fragilis

<400> 1396

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ggatatggag	ttcggcacaa	tccctgttgc	agtcagggtac	gcctgataat	cttccatgag	180
tatatggtct	atcgagccaa	tgtaaattgtc	cctgtttatcc	cggaattggt	tgaaactgcc	240
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<210> 1397
 <211> 1401
 <212> DNA
 <213> B.fragilis

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attatttcac	tttgcgtggg	tggactgctt	ttcctgcttg	cacgtcccat	catcggtatc	480
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<210> 1398
 <211> 237
 <212> DNA
 <213> B.fragilis

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cgtggagttag	cggttgaatt	ttctgctttc	cttactccta	cgcatctatc	ttccgaaaag	237
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<210> 1399
 <211> 1206
 <212> DNA
 <213> B.fragilis

<400> 1399						60
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atcatagagc	gttttgacaa	gcagtgcgcg	agttattcat	cggatgatgt	ggtggcggag	360
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<210> 1400

<211> 582

<212> DNA

<213> B.fragilis

<400> 1400

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cgcctatacg	cgcgcagcat	aacgggtgaa	ccggacgtag	ccgaagaaat	cgtcgaagaa	180
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<210> 1401

<211> 282

<212> DNA

<213> B.fragilis

<400> 1401

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gagctgacag	atcttaccgt	ggccttgttt	gcagggatga	tatctgcaca	gcctcccgg	180
acggcgggcga	tggaagttcc	agtggcctgc	cttaggggaag	acgcgaggac	ggggacgaac	240
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<210> 1402

<211> 891

<212> DNA

<213> B.fragilis

<400> 1402

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cctcatgaaa	ccgattgtat	tttgtttgta	atggaaggag	aactggaact	gtcctgtaac	180
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<210> 1403

<211> 372

<212> DNA

<213> B.fragilis

<400> 1403

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gtcaactttc	ctgtttatgg	tctgtcggaa	aacaaacgca	cccgttatcc	aatgatagcg	180
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atattgatag	gatgtttggc	tgttgaagct	gatatggggg	ccgttatacc	gtatgttgat	360
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<210> 1404

<211> 489

<212> DNA

<213> B.fragilis

<400> 1404

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cagatcaagc	ctttgaagga	tataaaaaaga	aggttaaagt	cactcggtgg	cggtgagata	180
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<210> 1405

<211> 192

<212> DNA

<213> B.fragilis

<400> 1405

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gagccaaatt	ggatacaaaa	gttcagagac	ttctgttggt	tatataatta	caaaaaccat	180
gccatatttt	aa					192

<210> 1406

<211> 1287

<212> DNA

<213> B.fragilis

<400> 1406

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tgtaatagtc	gcggggccta	tccattggct	gtgcaggtcc	ttcataaacg	gaagaaaaaa	180
gtcttttata	cgggatacag	tattgagccc	tgtcagtttg	attccattag	cggacgggta	240
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<210> 1407

<211> 1572

<212> DNA

<213> B.fragilis

<400> 1407

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<210> 1408

<211> 1437

<212> DNA

<213> B.fragilis

<400> 1408

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<210> 1409

<211> 474

<212> DNA

<213> B.fragilis

<400> 1409

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<210> 1410

<211> 267

<212> DNA

<213> B.fragilis

<400> 1410

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<210> 1411

<211> 189

<212> DNA

<213> B.fragilis

<400> 1411

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<210> 1412
<211> 204
<212> DNA
<213> B.fragilis

<400> 1412
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cccaaagaca tactgaaagg gtaa 204

<210> 1413
<211> 1584
<212> DNA
<213> B.fragilis

<400> 1413
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<210> 1414
<211> 564
<212> DNA
<213> B.fragilis

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<210> 1415
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 <212> DNA
 <213> B.fragilis

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<210> 1416
 <211> 975
 <212> DNA
 <213> B.fragilis

<400> 1416						
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 <211> 402
 <212> DNA
 <213> B.fragilis

<400> 1417
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 gccggactcc agagcatggg ctataaattt tgggagccgc gtgacaacaa aaaaatattg 360
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<210> 1418
 <211> 969
 <212> DNA
 <213> B.fragilis

<400> 1418
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<210> 1419
 <211> 729
 <212> DNA
 <213> B.fragilis

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<210> 1420

<211> 204
 <212> DNA
 <213> B.fragilis

<400> 1420
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 cctatccatg caggcactac aacttttcaa aaagagtcga tatgggtgtt aagtaagcag 180
 gtaataccgc tatccgtagc ttga 204

<210> 1421
 <211> 651
 <212> DNA
 <213> B.fragilis

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<210> 1422
 <211> 1296
 <212> DNA
 <213> B.fragilis

<400> 1422
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<210> 1423
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<212> DNA
<213> B.fragilis

<400> 1423
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<210> 1424
<211> 267
<212> DNA
<213> B.fragilis

<400> 1424
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tggatggatt ccaactgcac agatgaacag tacatgtgca attttgccga acgttacgtg 180
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<210> 1425
<211> 2073
<212> DNA
<213> B.fragilis

<400> 1425
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gactacctga	gctactactt	cgtaaccagt	aaagcctatg	ctcaaaaagg	aaaacccatt	2040
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<210> 1426

<211> 252

<212> DNA

<213> B.fragilis

<400> 1426

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aatcaaataa	aagactccgc	aaaagaacag	tataaatcag	ttaccaacct	ctacttacca	180
cgaaacgaca	aaaactgtat	atgcacgtca	gtcccgaacg	ttaataccca	agaagccaag	240
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<210> 1427

<211> 696

<212> DNA

<213> B.fragilis

<400> 1427

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gttactgata	acaatgggtc	ggctgccgta	aaggtaactt	tccccctcag	tatacttttt	360
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tacaacgagt	cggaaacacc	ggaacaaaac	cgctgtgtag	aaatatttat	gtacgccagt	660
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<210> 1428

<211> 1275

<212> DNA

<213> B.fragilis

<400> 1428

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agtggagtgg	tcaaagacaa	actcaacaaa	aagaaactgg	agtatgtcaa	tgtatcgata	180
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<210> 1429

<211> 951

<212> DNA

<213> B.fragilis

<400> 1429

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ggaaaccgtg	gcttcgtgtg	gaacgtctat	aagagaatga	gggacgaggg	cctgcttccc	180
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ggggttgaga	tcgaagccta	caactgcccg	agacagacct	tgacggatgc	gcttcgggag	300
actggcatcc	ctgtggaaat	tggaaagccg	aatgccgaga	ccaacagcaa	ctggaaactg	360
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<210> 1430

<211> 1206

<212> DNA

<213> B.fragilis

<400> 1430

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<210> 1431
<211> 906
<212> DNA
<213> B.fragilis

<400> 1431
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cctgtcgata ttttattcta ccgttttttta ttggcatata tttgcatctg gtttttctct 180
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<210> 1432
<211> 234
<212> DNA
<213> B.fragilis

<400> 1432
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acgctccgga acgttcgggtg gaaagaaacg tcagtgtatg ttactccaaa agccatcata 180
aagatcggaa aacttcttcg ggcaggcagt tgcaaaaagc aaccgataaa ataa 234

<210> 1433
<211> 561
<212> DNA
<213> B.fragilis

<400> 1433
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agaatgatta cattttttga aatcacagga ttcaatcccc gctacgcac ccggaatccg 180
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ctcaaacgtc tgggcggcct gctgaaatac cagcttgatc cggagaagtt tccaaggata 480
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aacgaggaat atgtattgta a 561

<210> 1434
<211> 459
<212> DNA
<213> B.fragilis

<400> 1434
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 cgactgatga atctggttcc gaagttccct cctgttgata aggaaaaagc gaaaggacaa 420
 gatacaaaaa aacaaaagaa taagaaaaag aagaaataa 459

<210> 1435
 <211> 615
 <212> DNA
 <213> B.fragilis

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 gcaaacagaa agcagcccaa taacaaagtg cttatagcct acttctcggc gacaggaact 180
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 ccagcccaac cctatacaaa tgctgacctc aattggaata acaaacaatc gcgcagttcg 300
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 aatacattca tcgagagcta tcatttgaaa aacaagacaa tcactctgtt cgccacatcg 480
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<210> 1436
 <211> 279
 <212> DNA
 <213> B.fragilis

<400> 1436
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 aaaaatgagt tgtataaatc tgtgcaatct atagtaaaaa agagttttga aactctctct 180
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<210> 1437
 <211> 318
 <212> DNA
 <213> B.fragilis

<400> 1437
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 cacaatggcg accaatggaa agtaaaagcaa gaaaatgctc aacgtagttc tggtaatctc 180
 agaacacaac aagaagcatt tgagcgtgct cgtgaaatcg ctattaagaa cggtaagaa 240
 gttgctatac acggattaga tggacgtatt cgtgaaaagc atagctatgg caatgaccca 300
 taccaccag aaggttaa 318

<210> 1438
 <211> 621
 <212> DNA
 <213> B.fragilis

<400> 1438

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tataactcat	tggtaaaatt	gagaaataat	cgcgaaaacg	catttgccga	cattgatgta	180
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<210> 1439

<211> 1311

<212> DNA

<213> B.fragilis

<400> 1439

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<210> 1440

<211> 222

<212> DNA

<213> B.fragilis

<400> 1440

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cttgctcttc	cttatcagga	atttactaag	ggacctccgg	cccttagccc	gggacgcttc	180
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<210> 1441

<211> 2664

<212> DNA

<213> B.fragilis

<400> 1441

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<211> 264

<212> DNA

<213> B.fragilis

<400> 1442

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<211> 204

<212> DNA
<213> B.fragilis

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<210> 1444
<211> 186
<212> DNA
<213> B.fragilis

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<210> 1445
<211> 516
<212> DNA
<213> B.fragilis

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<210> 1446
<211> 2235
<212> DNA
<213> B.fragilis

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576

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 <211> 1494
 <212> DNA
 <213> B.fragilis

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<210> 1448
 <211> 216
 <212> DNA
 <213> B.fragilis

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<210> 1449
 <211> 1281
 <212> DNA
 <213> B.fragilis

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<210> 1450
 <211> 612
 <212> DNA
 <213> B.fragilis

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 gggagaatat ggggtgaccc tggattatta taccaaaaaat tactcaagat tatttcagaa 540
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 tttgtggaat aa 612

<210> 1451
 <211> 1167
 <212> DNA
 <213> B.fragilis

<400> 1451

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<210> 1452

<211> 876

<212> DNA

<213> B.fragilis

<400> 1452

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<210> 1453

<211> 1248

<212> DNA

<213> B.fragilis

<400> 1453

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acagtactca	cacacttaag	cggcttacta	atagcctttc	ttagcggggg	ggtagccgga	1140
ttgaccgggt	accacgggtc	ttttattttc	gaagttatat	tggcttccat	atcattgatc	1200
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<210> 1454

<211> 852

<212> DNA

<213> B.fragilis

<400> 1454

aaacatataa	tgaaatcttt	agaaacaatg	gcaaggtata	agaaagaact	gaccgaatgt	60
gccgcgaacc	tgaagctgcc	attcctggca	gaacacctgg	atgaaatact	acatgaagca	120
caggaaaaagc	aacagactta	ctccgagttt	ctgtcaactt	gtctcatgcg	ggaacttcgg	180
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accggaaaaga	cattcattgc	ttcaggactt	atccatgaag	cagtgaagc	gggttataag	420
gcatacctgc	tgaccttgga	agaactgctt	gtctgtttga	aggctaagga	gatatacga	480
cccgcgatga	aaacatacaa	acgaataatg	aaagcgcagc	tgctggcaat	cgatgatgtt	540
acgctgtttc	ccctgaaagg	agaagatgta	ctgctgctgt	ttaaactggt	gaattgcgtt	600
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atcaggctat	taggaaaaag	ctaccgcatg	gaaaacagga	aaacaatttt	tagcaatcaa	780
cagataggga	ctgcacctca	aaaagggtta	atgaaagtaa	agaagagaac	taaggaaagt	840
gggtactgtt	aa					852

<210> 1455

<211> 1785

<212> DNA

<213> B.fragilis

<400> 1455

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atgggatgtt	ttgcccggtg	ggagaccaat	ggcggagcgt	tcgagcaagt	caatttattg	180
tatggtgaaa	acccaataa	agcagtgcgg	gctttttacca	aacctttcaa	tgatgccgga	240
atacaaacc	acatgcttga	ccggggactg	aatggttttac	ggatgtatcc	cgttcctgcc	300
gatgtccgtc	ggttgatgta	caaagtcaag	catgcccagg	gagtagatat	caccgcgtatc	360
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attccttgaag	tttgtgagaa	tggtgctgat	attattgatg	tagccatgga	acctatgtcc	720
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cgtgtacctg	aaattaatat	gaaagcctat	atgaaggcgc	gtgccatgac	acaggagttc	840
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catgccggta	ttaatatgat	attaaagagt	aataatcagc	ctgaactcag	cattgacgat	1020
ctgcttgtga	tgttgttcga	tgaagtggaa	tacgtatggc	ctaagttagg	ttatcctcca	1080
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gtgaaaggtg	aggaacgctg	gagcatgata	gacaataata	cctgggggat	gattctaggt	1200
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gggtacgaat	ttacagatga	agatccgcag	aagaactatc	ccgaccagct	tgatgaatat	1320
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gaaccggatg	atgtattttg	ttatattgcc	actccatgga	acacttatga	tagagtattg	1680
gctaatttta	gtggacgcat	cattgaggta	tgtgccaagc	aagggtgctt	ggtcaataaa	1740
ggtgatgctt	tggcttatgt	agaaagatgt	gaagaaccgg	cataa		1785

<210> 1456

<211> 459

<212> DNA

<213> B. fragilis

<400> 1456

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tcattaaaat	tactgaatat	gaaattagac	gaaaacattt	tgaagacctg	tcaaggactt	180
gtaatgaact	gtaattgtaa	ggttttaatc	cttaacgtat	tgggtgaaca	ccgtgtattc	240
cttgtgaatg	atgtacacct	aaagaccctg	gagtgccgat	acaatgaagt	ccgtgatgcg	300
caagacatca	ccactcttgt	cttgaatatc	gggcataact	ttgccaatgg	tatgaccgaa	360
cagaccttat	tggaacgtac	ccaatctatt	cacaaggaag	atttcaagtt	tggaactgat	420
aattacctgt	ggataacaaa	agttgatttg	aatagataa			459

<210> 1457

<211> 2319

<212> DNA

<213> B. fragilis

<400> 1457

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ttagggcagt	cttgtacaga	agtggatatt	acgatgcca	aaggaccgaa	aggtgataga	120
ggaatgtcag	cttatgaatt	ttggaaagag	aatgtagaga	atggagtgat	ttcttggcct	180
aagaaaagaga	ctgaaataac	tgattttttt	aagtatttaa	aaggtaagga	cggtctggat	240
ggaaaaagtg	cttttgaact	gtggaaggaa	gaagtagcta	ctggtgctct	ggataatcct	300
caccgcccgg	gaagtatgtg	gcctgtatcc	cagaataatc	ttagagattt	ttggtattat	360
ctgacaggag	cgagtggcga	gaatgggcaa	acacctcata	taggtataaa	tatgaattgg	420
tggattggca	ataaggatac	cggaatacgt	gctcagggtg	gggatggaca	gaatggagaa	480
gatgctgttc	caccggtagt	tacgatcggg	gataatggta	attggttgat	tgatggagta	540
gatacaggaa	aaccttccag	aggtgaagaa	ggagtgcag	gaacaacacc	tactgttaca	600
attggagaaa	atggaaattg	ggtaatcaat	ggaaaagata	ccggaaaggc	tgcataggt	660
aaagatggaa	gatcgccaga	ggtaataatc	ggtaccaatg	ggaactggta	tattaatggg	720
aaagataccg	gtattcgtgc	atatggtaaa	gatggtgcca	atggtaagga	tggcattaac	780
ggtaaggatg	gtgccaatgg	aaaggatggt	gccaacggaa	aagatggtat	taacggtaa	840
gacggggctg	ctggaaaaga	cggcgctaac	ggtaaagatg	gtgctaattg	gaaaagtgcc	900
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aatcctcata	atccgtcttt	ggattgggat	tgtggtaaaa	caactttaag	tgatttttgg	1020
gagtttttga	gaggtgcgga	tggtaaagat	ggtgcggacg	gtaaggatgg	aaaaccgggt	1080
gttccgggaa	aaccgggtgc	tgaagttact	attatcaaag	gagtacctaa	cgtgattgca	1140
ctttattcac	aacaagaatt	tggagagtat	gttcgtacaa	ccgatggagg	agtagcttat	1200
cgtgtgtatg	acgaatctgg	caataaggct	ccgaaggctg	tggtttaagg	aattcccgggt	1260
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aataaggatg	caaaggaaatc	tgcaagaaat	acttatgtcc	ccaacagaat	gcagattaga	1440
atgatttata	ttgccacgtc	cccatatctt	gattatgaac	ataacctaca	gttttagagt	1500
gaaagaaaga	cggatcctag	tgcggaatgg	aaaacattgc	ccagctattt	gcctaattgc	1560

aatgccgtat	ttacggcata	tcagggttaca	aatccggaag	acccgacatc	tcttgataaa	1620
acgaaaaaga	tagagagtac	tacacctaata	atgagtagta	catcaatgtc	tattaatcct	1680
aatcgatatg	ttaaagagaa	tcctgccggc	ataaaaaatg	gaataactga	tttttgggat	1740
ggaaaagaca	actattttctc	aatagtaaaa	gatacccctt	attatggaga	aacgatttat	1800
tggaatggag	tatgtaagat	ggcaccttat	cagataacctc	ctacacttaa	aactctagcc	1860
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aaaccgaacg	gaatagatta	cattgaacct	gaatattatg	ctccggaaga	ggcgaaggaa	2040
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agcgaactta	atatgtcgag	ttacaagaaa	cctgagtagt	ctgcccttag	cccgtacttg	2160
ggagctacaa	tctattcggg	aggagcgagt	agcactttta	tctactctag	caatgtgtct	2220
ttaggagttc	tcaagaagaa	agcagataac	ggtacgtatt	atgttgagaa	tacatatataa	2280
gatatgcctg	aaattagtg	aacctataaa	gaaaaatag			2319

<210> 1458

<211> 549

<212> DNA

<213> B.fragilis

<400> 1458

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gaaaccgacg	tgatacccg	caccatgcac	ccgatgggtg	tcacctatct	ggtacgttac	120
gagttcagcc	acgggggtga	atacgtgtct	ctggcacgcg	gtgccttggc	tggtatggcg	180
caggcggtat	ggttgaacag	cggacacacg	tctgatgaag	ccgtaccgt	gctgtatgat	240
tgtacggtag	aagatttcgg	cacacaggct	ttgggtgcgt	ctttcggaat	acctgatttc	300
cctaacgaac	attacggcac	aagggcagaa	cgtaagtacg	ggctgaatct	ggaagtacgc	360
ttgaagaacg	gaaaaatcaa	gtcgttcgat	ttcgacgtga	ccgaccaggt	ggtggcgcaa	420
ccgcagggag	gtgtcatcgt	ggtgaaggcg	atcgagattt	ccgacgaaga	gggtacggaa	480
ggcggtccg	gcttcgacgt	ggatgtggac	gactggggag	attacgagga	catcgaactt	540
cctcttttaa						549

<210> 1459

<211> 261

<212> DNA

<213> B.fragilis

<400> 1459

agatacgaga	tttttataat	tgtttctatt	ttacaaaaag	caatgacagc	ttacgattta	60
aagaacattg	catctgcagg	tggaatat	gtcgttaatg	cagaagattt	ttcagcgtat	120
gatttaaaga	atattgtctga	aaacggagta	gcaacaaagg	caaagctaac	catcaaaaac	180
gcagggtgat	tatctggata	tgattgcaaa	aatattgcat	cagccaatcc	agggaatgta	240
acatttgatt	ttagcgaata	a				261

<210> 1460

<211> 705

<212> DNA

<213> B.fragilis

<400> 1460

acattgtgga	taataaaaagg	aagtgccttg	atactcgaag	aatcgccaat	tcaacaaaaa	60
gtacaaacga	ggcacagtgg	gcaacctata	tcaagtgggc	tgttcatctg	tgtgtttgta	120
caagcgtttg	gcgatgcttt	cgagttcaca	cagggtggcag	tccactttct	ttgtaataac	180
gtaattttctc	actggctgtc	tgagaaaaac	tcgaaaaatt	tcgccattat	gaaaaagtat	240
ttcgtttttat	cagtattttat	tatgctgatt	ggagcattta	caaagtgtca	aggtcaaaat	300
tctgcaactc	ccgataaaagg	agtgttagtt	cattgaaaacg	tccgtttatg	caactatgaa	360
agaggctggt	taataacaga	caacgacatg	aagcattgga	cgcaaaaact	tgaaatctcc	420
tacgacggct	cggacaagac	atacggcatc	tatatcaatg	tccgagggga	tattatcaat	480
ttgggtgtca	aatataaaaag	tagcgggaaca	gaatcttata	catacgaagg	aacggacagg	540
gtaacaggac	gaaaggttgt	tgctcgtaaca	aaacaaaagt	tgagttggta	tttgaataac	600

aatggagttg attctcatatc agaggttgaa agtccaaagg ggataatcgt taccgttcct 660
gccacttata cagtgttttc agtagttcct attaagaata agtag 705

<210> 1461
<211> 849
<212> DNA
<213> B.fragilis

<400> 1461
aacaatcact tcattataac atatatcatt atgaacaaag tttttttatt tttattattc 60
agcttttttaa caataacgag tatggcacia gaaaaaatca aacagacagc cgggcgcgat 120
caacttggtg attttgcccc taaatttgcg gaactcaacg acgatgtcct tttcggcgaa 180
atctggagcc gcaactgacaa actcagtctg cgtgaccgta gtttggttac gatcacttca 240
ctcattagcc aagggtataac ggataactca ctgacgttcc atctccagtc ggccaagaat 300
aacggtatca gtcgcacgga gatatccgaa atcatcacac atataggttt ttatgcagga 360
tgcccgaaag catgggcccgc ttttcggcct gccaaaggagg tatgggcaaa agatacaacc 420
ggggtagatg caaaggccgc tttccagcgt gaaatgatat tcccgatagg agaacctaac 480
acagcctatg cacagtattt caccggtaat agctaccttg caccatatac gcatgaacag 540
gttaatatct ccaatgtcac gttcgaacct ggttgccgaa ataattggca cgttcatcat 600
gcgaagaaag gtggcggaca gatgttgatc ggtatagcag gccgcggctg gtatcaggaa 660
gagggtaaac cggcggtaga gattcttccc ggtacagtca tacatatccc tgccaacgtg 720
aaacactggc atggtgcaac agccgaaagt tggttcgcac accttgcat cgaattccc 780
ggggaagact cctctaacga atggctggaa cctgtgacta ataaagaata caatagactc 840
ccccataa 849

<210> 1462
<211> 186
<212> DNA
<213> B.fragilis

<220>
<221> unsure
<222> (159)
<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1462
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acagagtgcg agaaaacctg ccgtacagcc gaacgttttc tagagcatgg cactgtgtat 120
gagccgggca ttggccatac aggtgcggat gaaagccgnc aaaagaaaaa tgagcttttc 180
cattaa 186

<210> 1463
<211> 225
<212> DNA
<213> B.fragilis

<400> 1463
tatttgatg ttgcaccgga tcacataaaa ttgaacttac agttcaaaaa cggctttttat 60
cacttaaaaa aacaggatga cggatggctc actacagaga taaatcttgt accatttctc 120
tcagtaaagt tcttaactgc actcttggtt atacagaaac ttttctactt tcaggaatta 180
atattgtcga atggatgcaa agcactaaaa actcaaagca attaa 225

<210> 1464
<211> 1911
<212> DNA
<213> B.fragilis

<400> 1464
acctttaatg tgatatttag tatgaaacaa atgatgaaaa aatatctata tatggcagct 60

gtggctgttg	taggtacagg	cttcctgatg	tcgtcttgta	aagacgaatt	tgccggacag	120
aataccaatc	cctccacagt	ctcaaaaccg	aacgtacgct	atattatttac	tcaatgtgcc	180
atgagttttc	agccggccga	ttatcttcag	tggtttgctg	gtttcgatgc	aatgtctacc	240
tgggtgcagg	caactgcctc	aggaggtgga	aactccagca	aattgaatat	ggtaactcag	300
accggctgtg	gctatcaggt	caacgaggtg	cttcggtata	cgaatgaaat	aaagcatcag	360
atcagtctga	tgtcggatga	tgaaaaagca	aaatacgaat	atattgctta	tttatgtaat	420
ccgatgctgg	tgtacttggg	acttgaagac	tcggatatgt	atggatcccg	tcaatattca	480
gaggcagaaa	tggtccggtta	tggtgggact	ctgactccga	aatacgatac	gcaggaagaa	540
ttgttcgaac	tctggctgaa	acagcttgac	gagacaatta	actatctgag	agagaacaat	600
ccgcaagacg	tgcttgggtgc	gcaggatgtt	atcttatagag	gaaaacttga	taaatgggct	660
aaactggcaa	actcattgaa	actcagaatt	gctgcacgcc	tgattaataa	agacaaggct	720
cgtgcaattg	ccattgtgaa	tgaggctgcc	cagaatccgg	ccggtcttat	tttaactctt	780
gacgatgatt	ttgttttcaa	taaaggtaaa	agagacaata	actggaacaa	tgatattttc	840
gttgggtcgg	gaactaagca	gttaatcgat	tttatgggtga	gcaatcgtga	ccctcgtttg	900
ttttactttt	tccagaagaa	cgattacaac	tctaattgtag	ttcaagggtt	ctttgatcaa	960
aaaagagctt	taccgtctta	tgtagaagcc	aatgtgaact	atacggtcga	tgccggacgga	1020
aagaaacact	ttgagagctg	gaaagctccc	ggagagcctt	gggtacgcta	ttatggagtt	1080
ccttgtcaag	tggtatatcaa	taaaaaggaa	gagtacaaag	actatttcga	ccccataaac	1140
gagttgttct	atctgtctgag	caaagacggg	gcgaaaaaga	cctatactcc	gattgcctac	1200
cggaataaccg	aaaatattaa	aggtctgttg	atctacacat	tccccgatgt	tcctgatgta	1260
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ttgagtaaag	accttgagaa	agtttatatt	cagcaatata	ttcactatct	gatgcttccg	1620
atggacatgt	ttgttaccgc	ccgtcgttcg	ggagtgccaa	tgaagaacag	taccttgttg	1680
ccatatcagg	atcttgatcc	gttattgggt	gaccagtacg	tcattcctcg	acgtttcccg	1740
gtaaagcaaac	ctcttgattc	tgatttgctc	cgtagacatta	caattgcagc	ctatcaagca	1800
cagggttata	cgtatgaagg	tgagatgagt	aattcacctg	tgacgttaag	caaagaacgt	1860
gtctggtatg	ataaagaggc	accggctttt	ggtacaggtc	ctcaacagta	a	1911

<210> 1465

<211> 375

<212> DNA

<213> B.fragilis

<400> 1465

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gtgtatgaga	agacgggaaa	gattccccgt	gatgtgaaat	atacactggg	ggaggtgttg	120
aaaaaggatc	tgaccgagat	tatggtaatg	atatacaggg	ctaattgctac	gactggaaaa	180
cttcctgata	ttgaacgggc	aagagatctg	gttgtaggag	tcaagggtccg	tttaagactg	240
ttgcaagata	tgccgcatat	cagtggtgaa	cagtatgcgg	cgtttgccca	acaggtggag	300
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caagaaaaaa	tataa					375

<210> 1466

<211> 1750

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (2)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1466

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cttgggagta	agtttaaagc	aagaaaccgc	acaggatcgg	catattatat	ttcgccctgag	180
gaaattcgca	ggttgggata	tacggatatt	aatcgtatgt	tgaaggccgt	ttcccgaggtt	240
aatatgtatg	aagaagacgg	tttcgggtctt	cgcccgaaca	ttagtttgag	aggaacgaaa	300
gccgagcgaa	gtgaacgcat	ctcgattatg	gaggacggtg	tactggcggc	accggctcct	360
tattccgctc	cggcagctta	ttatttcccc	aatgtagccc	ggatggaggc	catcgaagtg	420
ctgaaaggaa	gtagccagggt	acaatacgggt	ccgttcaacta	cgggaggagc	tattaatttg	480
gtatcgactc	ctattccgaa	cagttttttcc	ggtaaagcga	acattttctta	cggaagcaaa	540
aatacgttta	agtcgcatac	atctgtcggg	agcagttgga	agcatttcgg	gtatatggta	600
gaatatttgc	gttatcagtc	agatggtttt	aagaaatacg	aagatcatgc	tgccaaagga	660
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cgtgttgcta	tcgggaattt	tagggcggaa	ctaatecgggt	tctacaataa	ttacagtaat	1680
atgctgggaa	gtgatctggc	tgcttcgggt	gggggtcttc	accacggggc	tgcaaggagc	1740
cgtgcagtat						1750

<210> 1467

<211> 186

<212> DNA

<213> B. fragilis

<400> 1467

tgccggcatg	cctgcccctc	cggcaggggc	ggaccgggtg	acggcgtgtg	tcgggctctc	60
ggtacgggta	gcgggggaga	ctaccggggc	ggcgggtacag	gcggatgcga	cggtggagga	120
gaagatctct	tctgttgccg	tttttctggt	gtcgggtcgac	gggagtggaa	aggaggattg	180
gaatga						186

<210> 1468

<211> 1152

<212> DNA

<213> B. fragilis

<400> 1468

gttctcgctt	atcaggatat	cttaagagaa	aaagatctct	gtggaactct	gtgttactct	60
gtggtgaaac	accggttcaa	tcataaaaatt	ttcccaacca	tgtccgataa	gtttcagact	120
ttctgttttt	cccatcccg	cagttgggtt	ctgccgttct	tgtggctttc	gttgttggcg	180
ggcttatctg	cctgctcgtg	gaccggggac	gaccgtagec	actgtcccag	tggtttccgt	240
attcgtcttc	agcctgcatt	gcacgcacag	atacagccc	acagcgggac	aggcgtcatc	300
accgacgaga	tcgacacgct	gtccctttac	gtgttcgacg	cacagggaca	gttcgtctgc	360
ctgcacacag	agaacaggca	atcgctgact	gaaaacgatt	atatcattac	cctgccgctg	420
gaatataaag	acggagacgt	ttacgaactg	gtgttctggg	cgggagggga	caaccggcat	480
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gaacgtgacg	gagacggagc	tcaggatgac	gaattggggc	acttgtggta	cggtcatctc	600
cggttgagcc	ggatacagcc	ttcggaaactg	acatcggtca	gcgtaccgat	gttgaaggac	660
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ggcgaccggg	tgacttatgc	cgcctatcat	accgagtcgg	cttccgaaac	ggaaccggcc	840
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gcgatcagg	aggcccgct	ggtggtgacg	gaccgtgtct	cggggcagaa	agtagtggat	960
gtcgacctga	cgcgttatct	gctgatgacg	cgccccctgt	ttgaagagag	caacgggtgtg	1020
gagctcagcg	accaggatta	ccttgattac	gaagatcggg	tcaacgtgat	tttctacctt	1080
accccgatgg	gaaagctgga	ggcgctgaac	attaacggat	ggattatcag	actgaacgat	1140
gcacaactgt	aa					1152

<210> 1469

<211> 879

<212> DNA

<213> B.fragilis

<400> 1469

cgtaaaaaag	aaatgaaaaa	actaaagtac	atgagtatga	tgggggtggc	tgctttattg	60
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gaagcgagag	cttataccac	agtgaccatt	gccgtaccga	atggtgtggc	ggagacaagg	180
gcctccgatc	cgacggcgga	tactgacgat	acgaatatgg	atatcggttt	aacggatgaa	240
tacaaagtga	cgaaggccaa	tctgtatctg	tttccgggag	gaacgggtag	tagctttggt	300
agcgctaagt	tgacagagat	tatttccatc	agccagttta	cgcaaaccac	cactactact	360
accgaccaga	agaccattgt	atggaccagt	aagaaaacag	ccctgacccc	gggagactat	420
cgtatttata	tagtggtgaa	cggtacggtc	aatgggggtg	gtgacagtga	caaggggaact	480
ctgaccgaag	ctgcttttct	cgcaaagaca	acggctgctg	ctacgagtgt	gatagctgct	540
gtaccgagtg	acggactggt	aatggcgagc	cgttctccca	acagtaataa	ctcgaatact	600
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gagcgtgtga	tgggaaagat	tacgggtgact	gcgggaggaa	ccagtgcgtc	ttctgctgct	720
actgttaata	aataacttct	gttttctacc	acagtagctc	agatcaacaa	tattaaggat	780
atcacccctaa	aaactcatta	tgtagtccac	gccggaaaag	agggatatta	tttccgtcat	840
gtggataaag	aaagctctgc	aacgaatcct	ttgacttag			879

<210> 1470

<211> 753

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (170)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1470

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ggcaattggt	atctgcaagg	atcaagcgca	tttggcttgt	cgtctttcgg	cactttttcc	120
ggaacttata	cggatatgcc	gggtactctt	tccggggcgg	tggaaactan	agtcgccgct	180
tactgctatg	aaaacacgat	gctgaaggat	aaacagaaga	acggatatac	aaccggcatc	240
gtattttaaag	cggaatatagc	tccgagtaaa	atgatgaaaa	aaaggtcttc	gggcgggtggt	300
gtggaagaaa	ctactacaat	tggttcgatt	ggtgaaatct	tctaccattc	cggtatcttc	360
tacaaagata	ttgaagcgct	gaaagaagcc	ggtgtattac	tggcagacgg	aactacttcc	420
agttcggcca	gcggtgtccc	tgccgacctg	aaaaagaacg	acgtccagtg	tttcaagaaa	480
ggaaataccg	atggcaagtt	cttttgttat	tatccgtatt	ggatcaaaca	tctcccctcg	540
gatacagcag	aagatgtgat	ggagttcggc	attgtccgca	acaatgtcta	tcaagtaacc	600
gtcgccagta	ttcaagggtg	cggcaaagac	ggtgtaaccg	aaaatatcat	taccgatacc	660
gaaaccgatg	atccgactac	cgtattgctg	aatgtgaagt	taagtatcaa	accttgggta	720
gtgcgtgcga	atagtgccgt	attgggccgt	ttaa			753

<210> 1471

<211> 1488

<212> DNA

<213> B.fragilis

<400> 1471

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ttatatgtta	aaataaaaaag	tcttatgaaa	gagaagatac	gatcgacccg	tttaagaatg	120
tgctttcggga	agatgccgccc	ggcagtggtc	ttcctgacgc	tctttgcaact	gtgcttcggt	180
gcgctgtctg	tccgtgcggc	agatccgtcc	ggaagagtag	ccctttccgc	cgtccgaatg	240
cagcgtgcgg	gtggacaggt	atatgtctcg	tttgccgtaa	agatagcccc	ccgtgcagtg	300
cgtgcccgtc	accgctgggt	gattacccct	tgtctgggca	acgcctcgga	tagtgtgttg	360
cttgcccgt	ttgtggtgac	gggacgcac	atggcgcgcg	aggaaaatca	gcggcgccca	420
ttggccggcc	ttccggaccg	tgacgtcaat	catcggtgga	ccgcccgcaa	tggagacacc	480
ttcttgata	ccgatacgtt	gcgctatgcc	ccgtggatgg	agaatggctt	gaacctgcgg	540
ctcgacatcg	accgggaagg	ttgctgccgg	gtacagacag	tgggaagcat	cgtctcctcc	600
ggcgcttttc	cgggtggcttt	gccctatcgt	ccgtcgggta	gtgagctcac	tccgaggggtg	660
agccggacgg	tggcggaaca	tgccgatgac	tatccgttcc	tgtgcgaggc	aggcagccgc	720
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cgtgtgcagt	atgccaaccg	ccctgacagc	gtggcgagga	cgggtgaaccg	tgcgatagaa	1260
gccattcggg	ggcggaagta	tgaagaggca	ttccggttgc	tgaagacggt	ggagggcgac	1320
gaacgctcgt	ggaatgtacg	gggagtctgc	catctgttgc	gcggagacga	caaggaagcc	1380
gggctatggc	tgcatagagc	ggtgaaagcc	ggaaaccggg	aagcggaaga	aaaccttaaa	1440
aagatgaatg	cggaaacgacg	ggccgctacc	atcgggtataa	cgcaataa		1488

<210> 1472

<211> 339

<212> DNA

<213> B.fragilis

<400> 1472

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gggggagaat	ccaacctgag	ccgggtgcat	ctcctttttg	tttcccggtg	ggtttcttcc	120
cgctacgagg	ggtgggcgct	gatgccgggg	ttttcatcgg	gttactcgtg	ggtgctcggc	180
aaacgctgga	atctggaggc	taccataggt	gcagggtggg	tgcatgccca	atacaaacct	240
tttaattgtc	cggctctgtg	tgaatatcgg	ggagcgaaca	agaaaaattt	tctggcgccg	300
accgctgcgg	gcatacgtct	gatttatatg	ttaaaataa			339

<210> 1473

<211> 1035

<212> DNA

<213> B.fragilis

<400> 1473

cgtactgcgt	cgccgttctc	tccatccggc	acggcgtctg	tgaacggaag	atctatgaaa	60
tcgtcggaag	attcaaaaag	gagtgtacgc	tccatgcagt	ataaatgccg	tccgtttttt	120
gttttcatgg	gaaaaactga	agaattttgc	tgcccggaaa	tacaaacaca	tatattacac	180
gacaaaatga	ttatgaaaaa	ggaaaagact	tactcccggtg	ctccgctccc	tttcgtgggg	240
cagaagcgca	tgttcgtatc	ggaattcaaa	aagatcctga	aacattttga	tgacaaaacg	300
atatttgcgt	acctgttcgg	cggctccggc	ctgctatcac	acattaccaa	acgtgaaagg	360
ccggatgcgg	tggtcatata	caatgaccat	gacaaatacc	gcgagcggtt	ggaaaacatt	420
gaccggacca	ataccctgct	gagagatctc	cgtaaaatag	tcgggatata	tccccccat	480
cagaagatta	ccggaaaaat	gcgcgaggct	ttccttgaac	gcatcaggct	ggaggagaca	540
accggtttcg	tggactatct	taccctctct	acttccctac	tgttttccgg	aaaatacgca	600
caaaacatgg	aggaacttga	aggattgtat	ttttataaca	agatacgcca	gtctgactac	660
cgggtgtgacg	gctatctgga	cgggcttgag	gtagtctgct	acgactataa	ggaactggca	720

gacacatacg	gggtgtttcc	gggagtggta	ttcctggttg	atcccccta	tatgggaacg	780
gatatcagta	catacaagat	ggactggaag	ctggcggatt	acctggatgt	cctgctggta	840
ctgaaaggac	acccgtttgt	ctatttcact	tccgggaaat	cccccatact	ggatttttgc	900
cgctggatgg	aagagcatcc	cgggatcggt	aatcctttca	agggagccgg	ccggtccaca	960
cttaccgcac	ggatgaatta	caactcctcc	tataccgata	tcatgctcta	caaagacctg	1020
ccaagggcgg	cctga					1035

<210> 1474

<211> 264

<212> DNA

<213> B.fragilis

<400> 1474

gcgcgcgga	caaccacata	catacagttc	attacacttt	ccgcccattc	aatggtacgt	60
gcgacaacgg	ttgcaccatc	cttgctcttc	aaggtaatac	ccgtacaggc	tcccgcgggt	120
atgtgcggaa	cgctacataa	aactgacatc	aataatgctg	ataattttgt	attcatactt	180
tctattttta	tggctgctta	tggtagtgta	acacattcca	ttcccgaaag	gttgattaca	240
atagagagta	attattcatt	ttaa				264

<210> 1475

<211> 435

<212> DNA

<213> B.fragilis

<400> 1475

aatttgaaaa	cgcataaaga	agtaacttca	aataaaagta	aaacactgga	ttttgtaata	60
agtaaaacaa	tgaataatatt	tagatatata	ttgctcgctt	cgcttacctg	tacgcttttc	120
tcattgcggc	cggatgaact	gataccggaa	tccgtgccac	cgggtggtgaa	tcccggggat	180
aaggacgagc	cgggtgaaga	accggaggag	ccggaagagc	ctgaaaagat	acagttagcc	240
atcaccgcat	cattgcagaa	catgcagcag	accaggggaa	tcatagaggc	ttttgctccc	300
ggccatgaaa	tgggagtcct	tgtcggaaac	agtcagacag	atgaagcagc	aggtataaaa	360
aacgcctcct	atctttttga	tgggaaagta	tggaatgccg	gacaggatgt	accggtggaa	420
gcggacgccg	gtctt					435

<210> 1476

<211> 351

<212> DNA

<213> B.fragilis

<400> 1476

catacagatg	cgcatacccg	cacgaccggg	ggtaaatacc	cttgctcgcg	gatgcgcttt	60
tatctgtata	tgaatgattg	gctttgcaaa	gataaaaaaa	tattcgctat	gacactattt	120
gagattttta	atttttaata	agaactactg	gaacgtctga	cccgcattgg	tttcaaaccg	180
gatgactata	aatatatcga	cctgtacaag	gagtatgaac	agatgcgccg	gcagggtgat	240
aagggtgacg	actgcgtcgc	cgttctctcc	atccggcacg	gcgtctgtga	acggaagatc	300
tatgaaatcg	tcggaagatt	caaaaaggag	tgtacgctcc	atgcagtata	a	351

<210> 1477

<211> 1101

<212> DNA

<213> B.fragilis

<400> 1477

acgaccatta	aaatagaaag	tatgaatata	aaattatcag	cattattgat	gtcagtttta	60
tgtagcgttc	cgcaaatacc	ggcgggagcc	tgtacgggta	ttacctgaa	gagcaaggat	120
ggtgcaaccg	ttgtcgcacg	taccattgaa	tggcgggaaa	gtgtaataaa	ctgtatgtat	180
gtggtttgtg	cgcgcgctca	agagttgcag	tcactgactc	cctccggtat	ggatggactt	240
aagtttcagg	caaagcatgg	ctttgtgggc	ctggcggtag	agcagaagga	atgtgtgtgt	300
gagggcatga	acgaaaagg	actttccgcc	ggattatact	attttccgaa	ctatggtagg	360

tatcctgttt	atgatgcggc	acagagggac	aagagtcttg	cggattttca	gttggtatca	420
tatgtgctgg	cagaatgcag	cacggtagat	gaagtgaagg	aggccctttc	gcaggtgcgt	480
gtcatcaata	ttgatccccg	ttcgtccacg	gtgcattggc	gctttaccga	agcatccgga	540
agacaggtgg	tggtggagat	tgtaaatgaa	atgatgaact	tctacgacaa	tccattgggc	600
gtgttaacca	attcaccggg	tcttgaatgg	cattggacca	atctgaacaa	ttacatcaac	660
ctacaaccgg	gcacgttacc	tgaacataac	ttcgggccgt	tggagccgaa	gtctttcggg	720
catggcagtg	gtctgctggg	acttcccggg	gattttacac	ctccatcccc	ttttgtgcgt	780
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gcgtcagcca	atgtaccgag	tgccaccag	tttaccgttg	cgtgcgatat	acgggaccag	960
aaggtttatt	atcgtaacct	gtacaacagc	aacatccgtt	gcattgattt	gaaaacgata	1020
aatttcgaca	atgtaaaata	tcaagcggat	cctttggatg	aaacgaagga	gcaaccgggtg	1080
gaaatgaaag	tgataaaata	g				1101

<210> 1478

<211> 189

<212> DNA

<213> B.fragilis

<400> 1478

aaggtgacaa	aattgaatca	aattgctctt	ctgtatattc	caaccctgtg	tggactgtat	60
acgtcatttg	ttgctttcgt	tgtgctgcaa	catagccaat	ctgctaacca	cagaactgta	120
tacatggcaa	atggtaaaga	gaatgtcaag	cgtaaccgta	tgaaagggtc	ggacaagaca	180
aagtactaa						189

<210> 1479

<211> 426

<212> DNA

<213> B.fragilis

<400> 1479

ctcaataaga	agaagctaag	ttttctattt	ctaaagggtga	taattacaga	agctatcaaa	60
caactttttt	cttctcacac	attccaaacg	ctctcccttg	aaagtaggac	attattagac	120
gaatataatt	tcacaaaatc	catgatagca	aatctttttg	ataaacaaga	aaaactctac	180
cttgtaccct	ctactaaaaa	ggaaaatgaa	cttttagcag	ggattatcct	taatgatgaa	240
attattttatc	tactaaaatt	ttcaaaggca	tctgataaca	tttatactct	ttacaacgaa	300
acaaacgaac	ctatatgcga	tgtcaaatat	gatttttga	aaacaaaat	agttattatt	360
agcaactatg	gaaatgatgc	tatccccctt	acaacacaag	ttggtacagt	tttgtttgta	420
atatag						426

<210> 1480

<211> 816

<212> DNA

<213> B.fragilis

<400> 1480

tcaaggagat	gcaaacgtat	gaaaacaatt	acaacggcat	gtgtgaacca	taaggagggt	60
gtcgcгааага	caacctcgct	gctgaacctg	gcagccggga	tcgcacggat	gtataаагаа	120
agggtctgca	ttatcgatgc	ggatccgcag	gcgaatacga	caatggcagc	gttcggggag	180
gaaatggcaa	gccttccccg	ggaggttctg	ctcgagagtg	cgctacagga	ctgtatgcag	240
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ttcagggaaa	tagtaaaggg	gctggaagag	aagtatgacc	acatacttat	cgactgtccg	420
ccatcattgg	ggatcatcac	gcagaacgcg	ctgatggcaa	gcgattacgt	gatcatacct	480
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ctcaaaagga	agctgggagc	cgaagtccgg	atactcggat	actttatgac	caagtacaat	600
gccaggagaa	agctggatat	ggatatcagg	gagagtctgg	taagaagttt	gggagatggg	660
gtcttcgaaa	cggtaatacg	cagcaatgtc	gccctgggag	aggcacaata	caaggcacag	720
agcatatttg	actatgcgcc	ttcctcaaac	ggggctgatg	actacaggga	gctgggtcaag	780

gagttcctgg gcagaattaa aaaaataaat aaatag

816

<210> 1481

<211> 294

<212> DNA

<213> B.fragilis

<400> 1481

aagaaaggca	ggattatgaa	agactttaca	tcgaaaggaa	tatccctgga	aaacatggtg	60
ggagaaaccc	cgggaaaaga	aaaaggatatg	acaggaaaaa	catcacccaa	aacgaaccag	120
accgttgac	tgacggaaga	tctgaaatgg	gagttacgga	cgttcgcttc	ggaccatcgc	180
tgcaggggag	tcaagacact	gcttgaaaacg	atgatagaat	gtttcgtcag	ggaagacggt	240
acgcttgacc	gtgacaagtt	agaaggcttc	tggcgggaat	atgtcgaaaa	ataa	294

<210> 1482

<211> 1569

<212> DNA

<213> B.fragilis

<400> 1482

ttgtatacca	tgaaaaaaat	atcaatttta	attgcggtt	taaccctcag	cataagcctg	60
aaaccacttg	ccgctcagaa	taaaaagggt	tttatcatcg	ataaacagac	cgtctatcaa	120
gaaatagaca	acttcagcgc	ctcagacgct	tggcgctgcg	ccttcattgg	taaaaactgg	180
cctcaagaga	aaaaagaaaa	aattgcccgc	ttactattca	aacgtgaatt	tgacgaaaaa	240
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catgccccaa	aaggaaaagt	ttatctgacc	accatcgaca	agaatctgcg	atacatgggt	1500
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<210> 1483

<211> 222

<212> DNA

<213> B.fragilis

<400> 1483

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cagagcaata	agctacagga	catcgatttc	actatggaca	gctaccattt	caatggttcc	120
aaagtgggca	ggcgtttcag	ttattctaag	tttggtaaaa	ctcttttttc	gtgggctgta	180
ccgcctctgt	ttgccagtgg	aagcctctgc	tgccggatat	ga		222

<210> 1484
 <211> 1269
 <212> DNA
 <213> B.fragilis

<400> 1484
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 ccagaaactg atgtagtgga attcatcctt gatgaactaa atgacatcac caaagacgga 180
 gcactggacg taagtccaaa acagaaagga agaattacac gcggtgctgc tttggccttg 240
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 gaagctcagg ctaaagggtga gtataatcca gaacatcctt acaaagatag agatcctcgt 600
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 aaaatataa 1269

<210> 1485
 <211> 246
 <212> DNA
 <213> B.fragilis

<400> 1485
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 ggtataaata aatggactta tttatttata aaatcgtcca cccggccgat ggcctatcag 180
 ccggatggag atagagggtca aaacttaaat ccgatcttaa atgtcggagc ggccagcaca 240
 ctgtag 246

<210> 1486
 <211> 459
 <212> DNA
 <213> B.fragilis

<400> 1486
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 tacatagggt aagtataaaa acaggtcata gccgaaaagc aggtgacaaa ggccgagctt 180
 gcccgtaggt tgggggtaaa accacagagt gtggactatc tgctgacacg gaaaagtatc 240
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<210> 1487
 <211> 2250
 <212> DNA

<213> B.fragilis

<400> 1487

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cgccatccaa	tgaccgttat	aagatgccgc	atcttttttg	tccaccagtt	cggtcccggc	180
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atttacatta	tgccgattag	aggtatagac	tacggggagt	ccgttttcga	gtacatttac	2160
gtctccacct	ggcaagccga	tagagatttc	gcggggacca	ttggcgctcg	aagcgttcag	2220
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<210> 1488

<211> 411

<212> DNA

<213> B.fragilis

<400> 1488

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tactataaa	ctgatcataa	ctattctgtt	cagaacacat	tggcttatac	attacaaact	180
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gctgctgatg	aaaatatagc	taatgccgct	tcagttgtat	caaaggaaca	ggctattgct	300
aatcaggaga	aaaccattgc	tgaccttgaa	aatagtttgg	ctgtaaatga	acctatttac	360
aatgattatt	tagctcagat	caaagcttta	gtagggtgact	ctgcagaata	a	411

<210> 1489

<211> 786

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (510)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1489

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aactcggtcg	acgagaatat	gggagagatt	cctaattatc	gtgccgtagc	cgatgctcag	420
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ttgactatcg	gtgtcgacta	ctttgttttt	cctgcactct	atatcggtgc	gcagatcgat	660
ccgtttgctt	atacgtacaa	caagactacg	tataatccgc	aagcagggtc	tggcgatctg	720
tcggcgagaca	gccacaacta	cagtgtgtcg	gccgctccga	catttaagat	cggatttaag	780
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<210> 1490

<211> 795

<212> DNA

<213> B.fragilis

<400> 1490

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caagaaggcg	acagccttac	ggtgattcat	attacaaatc	ctacacagta	tttacttttg	180
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gacatggacg	tacgcctgtc	aagggagaaa	gtggactatt	ttgttccctt	tgctttgcct	300
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cgcgatacgc	tgggacatat	tttctccggc	agttcagtag	tggatgatgc	caatacagcc	660
ggatatgggg	caggggccaat	cgttgccctc	tacacttcgg	ccagtgataa	gaacgggcag	720
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<210> 1491

<211> 2373

<212> DNA

<213> B.fragilis

<400> 1491

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<210> 1492

<211> 384

<212> DNA

<213> B.fragilis

<400> 1492

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actgtcaaga	ccctatttta	ccgtaccgcc	ttaacaatac	gcctggcacc	tggttcatgg	360
aacaatccct	acaccctctg	ttaa				384

<210> 1493

<211> 1203

<212> DNA

<213> B.fragilis

<400> 1493

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aacggagggtg	tttatacctg	cgtcgaccgt	gatggtcagt	tgatggatac	caccaaactc	180
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atcagtgaat	ggacttatgc	ccattttcct	gacgcagagt	ttgggtgaatg	gtatgggtat	1080
ctccatcgtg	acggaacgat	ttctcagcct	gcgaaaggaa	atctgtttta	gggaccattc	1140
cacattccta	gaatgatgac	gaaaggctac	gcactttgtc	aggaattact	gtcagaaaaa	1200
ttaa						1203

<210> 1494

<211> 222

<212> DNA

<213> B.fragilis

<400> 1494

cgaccacggg	aaaataatag	gagcatggga	aatggggcca	tgactccctc	ctttttacta	60
aaagtaggtc	gtatcgaaat	atctggtaaa	ggtattgtga	agaaatcgcc	ttgggggtgc	120
tgcggatcta	tcctttctaa	tatgtatcaa	attcgggatt	tcaatggagc	attattgaca	180
atggttggtt	tcttggaac	agtagacggg	cgttattcct	ag		222

<210> 1495

<211> 1254

<212> DNA

<213> B.fragilis

<400> 1495

cctcttattt	ttatcatgaa	aaactcaaaa	atztatcctt	ggatagtggg	tgccctcctt	60
tggggggtag	cctactcaa	ttatatggac	cgacaaatgc	ttagcacaat	gaaagatgct	120
atgcaggtag	atattgtgga	acttcagtcg	gcaaccaatt	ttggccggtt	aatggctggt	180
ttcctttgga	tttatggcct	tatgagcccg	atctccggta	tgattgccga	tagattgaat	240
cgtaagtggc	tgattgtcgg	cagtcttttt	gtctgggtctt	ttgtaaccta	tttgatgggt	300
attgcagaaa	catttaata	ggttttttgg	ctgcgtgcat	taatgggagt	gagcgaagct	360
cttttatattc	cggcgggtct	ttctcttatt	gccgattatc	atactgaaaa	gtcacgttct	420
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gctactgttg	ccgctgcttt	ctcatggcat	accacattcc	attggtttgg	tattattggg	540
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ttgctgttca	gtaacatagc	tttctgggtg	atattacttt	atcttgacgc	acctagtttg	720
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atgtcacagg	ccggacctat	gtcgactatc	acgattgcat	tatcttcatt	tattggcggtg	840
attctaggtg	gtaccctttc	tgacaaatgg	gtacaaaaga	acatccgtgg	tcgtgtatat	900
accggtgcaa	taggcttggg	attgactatt	ccttctttat	tgttattggg	attcggggcat	960
agttttgttg	ctgttggtgg	agccggatta	ttattcggta	tcggttatgg	tattttttgat	1020
gctaataata	tgccctattct	ttgtcagttt	gtctcttcaa	agtaccgtgc	gacagcatat	1080
ggtatcatga	atatgaccgg	ggtattttgca	ggagcgttta	tcacggattt	gttgggtaag	1140
tggaccgatg	gaggaaaatt	aggttttaggt	tttgccatgt	tagctatcat	cgtattttatt	1200
gctttggcag	tgcaactcta	cttcctgcgt	ccgaagacag	ataatatgga	ataa	1254

<210> 1496

<211> 450

<212> DNA

<213> B.fragilis

<400> 1496

acggtcgtta	ttcctagctt	tgccgaaata	aaatatactt	ttgaaagtat	gtatgaatac	60
aatcagtgtc	gtatgtataa	agggggtaag	tttgatatgc	ttcacggaca	agataaaaacg	120
atccttccat	gcctagctat	gggaggtccc	cagggaggtta	ttggaggaac	tgccaactac	180
aatgggtgtaa	atctgggttg	tattatagaa	gcatggaaag	caggtgatct	tgagaaagca	240
cgtgaattac	aaaatttctc	tcaggaagtt	attaatgtca	tttgtcattt	ccgcgaaaat	300
atcgtagggtg	gaaaacgaat	catgaagttg	ataggattgg	atttgggttaa	aaatcgtact	360
cctttccaga	atatgacgga	cgatgaagaa	gtacgtatga	agcccgaacc	gcaagccatt	420
catttcttcg	atcgttgcaa	taagtttttaa				450

<210> 1497

<211> 453

<212> DNA

<213> B.fragilis

<400> 1497

aaggaaatga	ttgtatctaa	tttgcaaaac	agtcaacggg	tggaaggact	ccacccactg	60
tttaaaactc	tgtttgatta	cgtaaaaaca	catgatttat	ttcatgccga	attaggacga	120
attgagatag	atgggtgataa	tttattttatc	aataacgtga	atcctgagtg	tggtgcacgt	180
gacaagcaag	ttttggaact	acatcgcgat	tatattgatg	tacatatattt	ggttgaagggt	240
actgagacta	ttgggttgaa	ggctatcgaa	gatctgaaaag	atgaagtga	accttatgag	300
gcgaacgggtg	attgtgctct	ttactctgat	gcacctacca	cctttgttga	tttgcttctc	360
gggcaattca	tgatagtata	tcgggaggat	cctcatgctc	ctcttatagg	acaaggtaag	420
attcgtaaat	tgatagcaaa	agttaaattg	tag			453

<210> 1498

<211> 2094

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (2002)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1498

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gatgctagcg	gtgaatcagt	catcggagcg	agtgtgtcgc	aggtcggtag	caccaatggt	180
gtgattactg	acattgacgg	taagtttacg	ttgtcgggtc	atcctaaccg	aaagatcaga	240
gtatcttata	tcgggtatca	gcctcaggta	cttgatgtaa	agggcaaaaa	ttcttttaaat	300
attaaattga	aagaagactc	tgaaatgctg	gaggaagttg	ttgtaacggg	gtatgggtggc	360
aaacagctgc	gtacgaaagt	gacgaactct	attgcaaaag	taaaagatga	agcattgaaa	420
gtcggccttat	tctctaacc	cgctcaggca	ctctccggag	cagttgcagg	tttaaagggtt	480
acccaagcct	ctggtagccc	gggtgcggct	cctaaagtaa	cgcttcgtgg	cggtactaac	540
ttcgaatggtt	caggtgaccc	tctgggttatt	gtagacggac	aattgcgtga	cggtatgcag	600
gatatcaatc	cggaggatat	tgaatccatg	gaagtcttga	aggatgccgg	agcaaccgct	660
atztatgggtg	cgcgagcaag	taatggcgta	attttaatta	ctacaaaaac	aggtaaagaa	720
ggacgtcgcg	aaatcaactt	caaagccaaa	atggggttga	gctatgtaaa	taacccttat	780
gatttttttgg	gagccaaaga	ttatatcaac	gtactgcgta	caggctatag	taaatccgga	840
tttacaacct	cagacggaga	gtatgtctct	attgccccac	ttggtaactt	gacaagtgtc	900
tctccattcg	gtactggtaa	tacactgaat	gataaaacga	tctggaatat	tatgaataaa	960
acggcagaca	atgcctatct	gttacagaaa	ggatggcaag	aaatgccgga	tcctctggat	1020
cccagcaaaa	ccattttata	taaagatact	aatccggcag	attataacct	gaataatccg	1080
gcaatatctc	aggacataaa	tatcaatgat	tccgggggta	atgataaggg	tacttactat	1140
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aattataacc	gtgcaaattg	gaaaaacatg	ccgggatcac	aaaccagtga	aggcaattac	1320
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acttttaggtc	cggtagctgg	tgatggaaac	cagaattatc	agcccgacaa	atggtggaat	1440
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ctttctgtaa	aaggtactgc	caactgggat	tactccgaat	cattggctga	aagtttcacc	1560
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agtgcacccg	gttcaggagc	tccaacggat	gattttgccg	atctatcatt	gacagataat	1800
ggagaaggga	aacgttccat	tgattcagga	catagcgatt	atcgatttct	ttcttatttc	1860
ggacgtctga	attacgacta	taaaggccgt	tatttacttt	ctgctgtctt	ccgtcaggat	1920
ggatattcat	ctttattagg	tgacaaccgt	tggggatttt	tcccgggagt	ttctgccgga	1980
tggatttttg	gacaagaaaa	tntcgtaaaa	aatgctctgc	ctttcctgtc	atgttggtaaa	2040
ttacgtgcga	gttatgggtg	aaatggtaac	tcaaccggaa	ttggtgcgtc	ttca	2094

<210> 1499

<211> 222

<212> DNA

<213> B.fragilis

<400> 1499

agcctaaggt	ctatcggttt	aaaaccaaga	cccctttcct	ttgaaaccaa	cggaactttg	60
gttttaaaag	tattttcacg	ttggtacaat	actatctatc	agcacattgt	gagtgcagaca	120
ttcgccaaag	caggctcctc	ggttcgcata	ttaattactg	acaaaaagaa	ctacaaaccc	180
acttccgaga	gatgtgtcga	aactcttttc	accacagagt	ag		222

<210> 1500

<211> 990

<212> DNA

<213> B.fragilis

<400> 1500

agaaaaaaca	agaagatggg	attattcata	aagaaaccct	ttgaagccct	attggcagag	60
gccaatgcgt	cgggcagtaa	atcattaaaa	cgagtattag	gcccctggag	tctggtagca	120
ctgggcgtcg	gtgttatcat	cggagcagga	ctcttctcaa	tcaccggcac	cgtagcagcg	180
ggctacaccg	gaccggccat	caccctttca	ttcgccatag	ctgcactcgg	atgctgcttc	240
gcaggactct	gctacgctga	gttcgcttct	atgattccgg	tggcaggcag	tgcttatacg	300
tattcatacg	ccaccatggg	cgaactgata	gcctggatca	tgggtggga	tctcgttctc	360
gaatataccg	tagcagccac	taccgtcagt	atcagttgga	gccgatatct	cgtcgtcttt	420
cttgaaggac	tccatataca	tctgccgcaa	gccctgaccg	cctgcccattg	ggatggagga	480
atcgtaata	tcccggcggt	cctgatcgta	gtgttgatga	gcattctcct	gattcgcgga	540
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atattcggtg	tcttcgcttg	gaaatatatc	aatgccgaca	actatactcc	atacatcccc	660
gccaatacac	gtacactggg	cgaatacggg	ctctcggttg	tcctgcgtgg	agccgccatc	720
gtttttctttg	ctttcctggg	attcgatgcc	gtcagtacgg	ctgcacagga	aacaaaaaat	780
tccgaaacgg	aatatgccga	tccgtattct	ggtatcactc	ttggtatgta	ccgtacttta	840
tatgcctgtt	gccacgtaa	tgacaggagt	agcccattaa	taccgaattt	taacggccag	900
aagggcacat	caccggtagc	cattgccatt	cgaacacatg	ggacatgccg	atgcaacagg	960
gcatacttca	cccggattat	cccgtggtga				990

<210> 1501

<211> 351

<212> DNA

<213> B.fragilis

<400> 1501

aagtggattg	aagaggcgcg	tgcgttgggt	gatacacccg	aagaaaagga	attgtacgaa	60
tggaaatgcc	gtgtacagat	tacgacctgg	ggtaaccgga	acgcggccga	ttacgggtgt	120
ctccgagact	atgctcacia	agagtggaa	ggcttgctga	aagatttcta	ttacatgcgt	180
tggaaaactat	atttcgactt	tctttctcag	cggatagagg	gaaagacccc	tgcggaaatt	240
gattttctatg	ccatagagga	accttggacg	aaagctgcca	atccctattc	tgccgaggcg	300

gaaggagact gcattgaagt agcgaagcag gtgatgcaag cggttgaata a

351

<210> 1502

<211> 609

<212> DNA

<213> B.fragilis

<400> 1502

gccatgacgg	actacttccc	cccattcttt	tcacacatca	acgagaagtt	ccgtacaccg	60
gcgcgcagta	acctcctgtt	tatgctgata	gtgggcctgc	tcgccgcatt	tgttcggca	120
cgcctggcgg	gagagatgac	cagcatcggt	acactgatgg	ctttcacact	ggtatgcga	180
gccgtcctcg	tagtgcgaaa	gaccatgccg	aacgtacccc	gttcatttaa	aactccgttt	240
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gccgatacct	ggatacgatt	agtactgtgg	atgctgatcg	gactggacat	ctatgtcggc	360
tacggcatga	aacacagtaa	actggaacat	ggtgtgaaaa	atcgccgggg	acaatcggca	420
ttgaacatga	tcggcattgc	actgtctctg	ctttgtgtca	ttaccggctt	atggcatcag	480
cagactgtag	gttggaatga	aagtaaaata	ttgctgatca	tctcgtttgt	tttcgcattt	540
acgcattgtg	catattatat	gatgcggata	tggaaaggga	caacaaaaca	aacgaatgac	600
aacggttaa						609

<210> 1503

<211> 1298

<212> DNA

<213> B.fragilis

<400> 1503

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cctgcctgga	gtatggactt	cagaataact	actccctgca	aatagtcgc	aatgaagagc	120
aagtgagcag	gaacaacgcc	accccgggca	acgcaggcta	tctgccgaca	ctcgatttta	180
cggcaggata	caaggggaca	gtggacaaca	ctaataccaa	ggtccggggc	accggagaat	240
cagtaaaaga	aaacggtgtc	ttcgaccaa	ccttgaatgt	gggtctgaac	ttgaactgga	300
ccatcttcga	tggtcttaac	attacagcca	attaccagaa	actgaaagag	ctgcaactac	360
agggagaaac	caatacccg	atcgccatcg	aggacctgat	agccaatctg	gcagccgaat	420
attacaacta	tggttcagcaa	aaaatccgct	tgcagaattt	ccgttatg	gtatctttgt	480
cgaaagagcg	cctgcgaatc	gtagaagaac	gttaccacat	cggtaacttc	tcccgtctgg	540
actatcaaca	agcaaaagt	gacttcaacg	ccgacagcgc	caaatacatg	aagcaacagg	600
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aaccgctcgt	gatagaagac	agcattataa	aagtgaatgc	cgggcttcga	ttcgaagagt	720
tgtggaatgc	taccttactg	acgaacgcgt	cactgttgaa	agctgaacaa	aacaacacgc	780
tcgccatgct	ggactataag	aaagtaaa	cgcgcaacta	cccttacctg	aagatgaata	840
ccggatacgg	atataccttc	aataagtag	atattgccgc	taatagccaa	agaggtaatc	900
tgggagccaa	ttttggagta	acggtaggct	tcaacatctt	cgatggaaat	cgccgacgcg	960
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gctacatgct	aggcaacctt	tcgggtatcg	aaatgcggga	agcgcagaaa	agtttgctgg	1200
atgccgaaga	acgcatactt	tcggctgaat	acgataccaa	gttatgtgag	atttcacttt	1260
tacaaatcag	tggaaagatc	acgaaatacc	tggaaatag			1298

<210> 1504

<211> 1341

<212> DNA

<213> B.fragilis

<400> 1504

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ttcatttcgg	gtccgggatt	ttttgcctgg	tgggttatga	ataacttggg	aggggtgggt	120
ggtcccaatc	ccgacagctg	gtatacccg	cagattgctt	tgcaaaaaaa	gatacctgaag	180
cgtatgcgcg	aatacgggtat	agagccgggtg	cttcggggct	attgcggcat	ggtacctcat	240

aatgcgaaag	agaaactcgg	cctgaacgta	tccgatccgg	gaacatgggtg	tggctaccgt	300
cgtccggcgt	tcttgcaacc	gagtgatccg	cgtttcgagg	agattttcttc	tctttactac	360
aaagaacttg	agaaactgta	cggcaaagct	aacttttact	ccatggaccc	ctttcacgaa	420
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aagaaggcca	atccgaaggc	tgtctgggtg	gctcaggcct	ggcaggcaaa	tccgcgtccc	540
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aaaggggtgg	gaatgactcc	tgaagggatt	gaaaacaatc	cggtgatgta	cgagctgggtg	840
atggagctgc	cttggcgctc	cgaccggttc	acgaaggaaag	agtggctgaa	ggagtatgta	900
aaagcccgtt	atggcggtga	tgatccgggtg	gtacaggctg	cctggaccaaa	tctggcgaaac	960
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cgtccgcagg	aggtgataga	agctgccccg	ctgatggttt	ccgtagccga	tcgctttaaa	1140
ggtaacaata	attttgaata	cgatttggtg	gatattgtcc	gccaggcact	ggcagagaag	1200
ggacgtctga	tgcagaaagc	tgtgactgcc	gcttatcgtg	caggtgataa	acaactcttt	1260
gcactggcat	cgggaaagtt	cctcgacctg	attttgttgc	aggataaact	gttgggaacc	1320
cgtccggagt	ttcgagtatg	a				1341

<210> 1505

<211> 903

<212> DNA

<213> B.fragilis

<400> 1505

aaatgtatat	caatgaaacc	ttaccatatt	aacaagaagc	aaatccttat	catgggctgc	60
ctgggaatgt	ttcccttggt	ttcttccgcc	caggacattt	tatcaacgtc	aggtagctcg	120
cgttgggatt	attcaaacag	ccgtgtggag	cgtgaaccgg	gtagagatgc	gttggatatt	180
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gaggggagct	tcgattacaa	caggtccctc	gcgcaacgac	gcacccaaac	cctttcagat	840
tatatctcgc	gtcaataacc	cgccttgtct	tcaccacggg	gctggaagaa	tccgcgctgg	900
cgc						903

<210> 1506

<211> 219

<212> DNA

<213> B.fragilis

<400> 1506

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ggacggcgg	taagcactcc	caaagaggct	tttaccaccg	ataattttac	cattcccggga	120
tgttttctgta	aatcccgcct	tgggtgcacgt	ggcgggatta	tacaggaaaa	aaaaggaaca	180
ccttatattag	ctaatttatc	ttataccgtc	ttcaattga			219

<210> 1507

<211> 3000

<212> DNA

<213> B.fragilis

<400> 1507

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atgcaggttt	atgcgttccc	tgactaccct	tccctgaggg	gacaaattat	cgaacagagt	120
gatatctgtc	aaggagttgt	caaagatgcc	aatggcgaaa	gcattatcgg	cgcatccgta	180
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aacgtaaaaa	aaggggatat	aattgttggt	tcttatgtcg	gctatcagag	ccaggaaata	300
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gtccgcgaaa	gcggtttgga	cggtatcaat	cccagggaca	tccgttcgat	gcaggttctc	660
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<210> 1508

<211> 207

<212> DNA

<213> B. fragilis

<400> 1508

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<211> 864

<212> DNA

<213> B.fragilis

<400> 1509

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<210> 1510

<211> 624

<212> DNA

<213> B.fragilis

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gtcccttctg	tgcttcagaa	aggggacgga	aacatgaagg	accaccgtta	cgaggggtat	420
ttctggggag	gcgggttgag	cgccggttac	cagtgggtgc	ttccaaccg	tttcaatata	480
gaggcctcct	tgggtatcgg	ttacgtgcac	gcccgttatg	acaagtacaa	gtgtaccacc	540
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<210> 1511

<211> 291

<212> DNA

<213> B.fragilis

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gataaaaaata	atatatctat	aaatcttgcc	aagaagaata	ttaatcatct	aaggcaaaca	180
aattatctaa	ttaacaacaa	tatatattat	gaatataata	cgcagcccat	tatttattgt	240
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<210> 1512

<211> 1404

<212> DNA

<213> B.fragilis

<400> 1512

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<210> 1513

<211> 1461

<212> DNA

<213> B.fragilis

<400> 1513

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caggttcaga	tcccagtttt	tataagacag	ggagttatcc	catcccagg	tgaaatcggg	240
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 <212> DNA
 <213> B.fragilis

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<210> 1515
 <211> 198
 <212> DNA
 <213> B.fragilis

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<210> 1516
 <211> 783
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
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<223> Identity of nucleotide sequences at the above locations are unknown.

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anaaccaaga	naaaannaaa	aaannnnaaa	naaaaaaaa	agaaaaaaan	nnnaaaaaaa	300
anaaaaaaaa	aaaaaaaana	annnnnnaaa	aaaaaaaana	aaaaaaaana	aaacaaaaaa	360
aaaaaaaaaa	aaagggnana	aaaaaaaaaa	aaaannanaa	naaaannaan	nnaaaaaaa	420
aaaaaaannn	nnaaaaanna	gnnnnnnaann	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nanannnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	720
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<210> 1517

<211> 330

<212> DNA

<213> B. fragilis

<400> 1517

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<210> 1518

<211> 780

<212> DNA

<213> B. fragilis

<220>

<221> unsure

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cgcgaacagg	cacgccgcaa	cccacaaccc	cagaccgcgc	ggcgcgccgc	gcacggggag	180
caaggagag	agggaggaag	agacggagga	anacgcgaaa	aannaaggaa	gaaaaaaana	240
aaanaaccaa	ganaaannaa	aaaaannnna	aaaaaanaaa	aaagaaaaaa	annnnaaaaa	300
aaanaaaaaa	aaaaaanaaa	naannnnnna	aaaaaaaaaan	aaaaaaaaaa	aaaaacaaaa	360
naaaaaaaaa	aaaaaaggna	naaaaaaaaa	aaaaaannan	anaaaaaana	annnaaaaaa	420
aaaaaaaaaan	nnnnaaaaan	nagnnnnnna	nnnnnnnnnn	nnnnnnnann	nnnnnnnnnn	480
nnnanannna	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	annnnnnnnn	nnnnnnnnnn	540
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	600
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	660
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	720
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<210> 1519

<211> 1539

<212> DNA

<213> *B. fragilis*

<220>

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<210> 1520

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<223> Identity of nucleotide sequences at the above locations are unknown.

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aanaaccaag	anaaaannaaa	aaaannnnnaa	anaaaaaaaa	aagaaaaaaa	nnnnaaaaaaa	300
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<211> 1293

<212> DNA

<213> B.fragilis

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<211> 531

<212> DNA

<213> B.fragilis

<400> 1522

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<210> 1523

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 <212> DNA
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gccaccctgc	tcgaacgtgt	cagcggggta	agttccatca	gcacgggaac	cactgtatcc	540
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cagaccgggc	agcaatgggg	ggccgaccac	gctcccgaag	tggacatgaa	cggcagctcc	660
tctgtttcgg	taatcaagg	ctccgatgcg	gtaagatacg	gttcggatgc	ccttggagg	720
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<210> 1524
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 <212> DNA
 <213> B.fragilis

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<210> 1527
 <211> 1506
 <212> DNA
 <213> B.fragilis

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<210> 1528
<211> 186
<212> DNA
<213> B.fragilis

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aattaa 186

<210> 1529
<211> 1557
<212> DNA
<213> B.fragilis

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<210> 1530
<211> 1491
<212> DNA
<213> B.fragilis

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<210> 1531

<211> 411

<212> DNA

<213> B.fragilis

<400> 1531

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gtaatatgaa	tgggattggg	attttcagta	gcaaaagcag	atgaacctct	aaagaaaaag	180
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<210> 1532

<211> 225

<212> DNA

<213> B.fragilis

<400> 1532

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cgtgctttgc	ttcagggagt	ggaattccag	aaagtcagtg	cgataggggg	agcaattaat	180
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<210> 1533

<211> 1152

<212> DNA

<213> B.fragilis

<400> 1533

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gctgtcagtt	atgaatttca	gagcaaagcg	ggcaacttgt	tgggaaagaa	gacctaccag	360
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<210> 1534

<211> 189

<212> DNA

<213> B.fragilis

<400> 1534

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ttttttacct	ttttatttaa	cctcttttgg	gttagtatgc	cccttgcttc	aaatgttttt	180
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<210> 1535

<211> 711

<212> DNA

<213> B.fragilis

<400> 1535

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<210> 1536

<211> 1353

<212> DNA

<213> B.fragilis

<400> 1536

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<210> 1537

<211> 255

<212> DNA

<213> B.fragilis

<400> 1537

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gcggagcgta	tttttgatgt	aaaactttgt	atagaatctg	atttatcgtg	tatcagggcc	180
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<210> 1538

<211> 1290

<212> DNA

<213> B.fragilis

<400> 1538

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<210> 1539

<211> 1578

<212> DNA

<213> B.fragilis

<400> 1539

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gtgtctatct	ctaagctcga	tgtgggctct	gtgcagacca	ctttctttat	tttctcgtt	1500
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<210> 1540

<211> 429

<212> DNA

<213> B.fragilis

<400> 1540

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acattgattc	ggattgcaaa	ggaaacgttg	aagaagaaag	cgcctgagta	tttaattgaa	180
aatgggtgcc	cgattatttc	gaagcaccgg	gttcgctatt	tgactccagc	agaagaaaaa	240
gaagtgcctg	aatttagtac	gttttatggg	gccaaagtcag	gccaaagtcta	ttatatgtgc	300
gaatttcctc	aagatgaatc	aatagaatct	ttttagtgctg	gattttgtagc	ccaagtttac	360
atttggaag	atacctcaag	acctttttct	attgcttttag	gaaatagttc	gattatggat	420
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<210> 1541

<211> 1341

<212> DNA

<213> B.fragilis

<400> 1541

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ttgaacggta	agccgatcgt	tgttttaagt	aataacgacg	gatgtgttat	tgccagaagt	180
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attcagaaat	atggatatatc	tgtcttttca	tcgaactata	cgctatacgg	cgacatgtcc	300
ggacgcgtga	tgtccatact	ggcagaacaa	gtgccggaaa	tggaaagtata	cagtatatagac	360
gaagcatttc	ttaacctgga	agggattcgg	gatattcagt	cactcggaac	agacatcata	420
aacaaagtaa	tccgcggaac	cggcatacct	gttagtttgg	gtatcgcccc	aacaaaaaca	480

ctcgcaaagg	tcgccaataa	atttgcaaag	aaatatcctg	cttacaatcg	tttatgtatc	540
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<210> 1542

<211> 864

<212> DNA

<213> B.fragilis

<400> 1542

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cagctcgcag	ttttatctgt	actcgggtaca	gtcgttagca	ctttgacagc	ttcattatcc	180
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tctgctttct	ccacatgggt	tgcgcgttgt	tttcgtttatc	agaacagagt	atcggggactg	360
acagcacctt	ttatTTTTgt	tgtatggcct	ctgcttggtg	ggtgtcatta	tctataccct	420
tctttactgt	tatcttcatc	gttggaaaag	cctgaactaa	caatggatat	tttccgttca	480
ttctgcttaa	atatcgggtca	ggtgatgttt	cagggaaata	tactttcggg	attatttttt	540
cttttaggga	tcttgattaa	ttctcgtatg	aatgctctgt	atacactgac	cggtgcaata	600
cttcctttat	ttatgatttt	atatccacat	actgatcttg	ctgcatggaa	tttgggatta	660
ttaggatata	acggagtgtc	ttgtgccata	gccttgggag	ataagacagg	cataggagta	720
gtcaaaagcg	tattttctat	catactgtct	atcgcttctgc	agttaacggg	tatgcatatg	780
ggcatagtga	ctttaacggc	accattttgtc	ttttccgtat	ggattaccgg	gggacctgttc	840
agtgttttca	gaagtaaatc	ctga				864

<210> 1543

<211> 1080

<212> DNA

<213> B.fragilis

<400> 1543

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ggacaaacac	aggtgaagaa	tttttcgtcg	gcaggggaag	ccgaaaaagc	tgccggtaag	180
ctgatagcgg	aaaaaacgaa	aaaaggatat	gtggagacct	tggaaagaggt	tgccaaagaa	240
atgaaagtgg	aagccaaaaa	gtatgcgttg	agctatgacg	aagcgggaaga	gggcgtaaac	300
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tgctggggat	atgaagggga	agactgctcg	gacattgccc	atggcattgt	ggagaataaa	420
gagaagtctg	cccatttcga	aggtctgttt	tggggggata	tagattttga	ggaacaggag	480
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aagtcacttg	aaattatcag	tggcggcctg	cccgattcgg	tgggtggaaga	tatcctgggt	660
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gcacggctat	tgctggatca	tgtggataaa	atcaagcatc	tgaagtttat	caatatgaaa	960
tacaattatc	tgagcgacga	gatgaagaaa	gagttgcaga	aatcgctgcc	catgaagata	1020
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<210> 1544
 <211> 777
 <212> DNA
 <213> B.fragilis

<400> 1544						
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ttcaccatca	ccgaaggaga	gtttgtcacc	attatgggta	cgtccgggttc	gggcaaatca	180
acgctactga	atacgctggg	ttgcctcgac	acacctacca	gcggagaata	tctgctggat	240
ggaatctcgg	tacgtaccat	gagcaaacct	cagcgtgcca	tattgcgcaa	ccgaaagata	300
ggctttgtct	tccaaagtta	caatctgctg	ccaaagacga	ctgctgtgga	aaatgtagaa	360
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cagaaactgc	atgccgaagg	ccgcacaatc	atatttgtaa	cgcacaatcc	ggaaatagcc	660
caatacagca	gccgtaacat	cgtgttgccg	gacggacaag	tcaaggaaga	cagcactaac	720
ccggacattc	tttccgcagc	cgaagcattg	gccgctctgc	cggtacaaga	agaataa	777

<210> 1545
 <211> 318
 <212> DNA
 <213> B.fragilis

<400> 1545						
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cctgataagg	acatattaaa	tgcacgatta	aagaaaatat	acgatatgta	ttatgaacgt	240
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tttgcagaat	caagataa					318

<210> 1546
 <211> 1518
 <212> DNA
 <213> B.fragilis

<400> 1546						
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ccggaagaat	ttgaaattct	cggggtggga	cgtacgggtt	atgaagatgc	ggactatcgg	180
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atggacgctt	tcgttggaca	tcttcactat	ctggcaatag	acccggcatt	ggaaaagcgg	300
tacggacagc	ttcgctcgcg	cattgaagaa	ctgagcggag	atagccggcc	ggatgacctg	360
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<210> 1547
<211> 240
<212> DNA
<213> B.fragilis
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<210> 1548
<211> 2073
<212> DNA
<213> B.fragilis
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<400> 1548						
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actgaacctc	gttcatatgt	gtgttatcgt	acggatggta	aactgaaaat	agatggcaaa	180
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gaggggtttc	ctacacctaa	atatgaaact	acggccaaga	tgctgtggga	cgatgaatat	300
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gatgcttatt	tcccgatgat	ctataatggt	ttttattacg	aaggaccgga	atggatcggg	1860

cgttcgggttc	aagagagtgt	taagaccgtt	gacggacgtg	cgaaagtgtg	tgccggactg	1920
atgtttcccg	atataaagaa	cgattttgag	aaagcattgg	atgaagcatt	tgataacggg	1980
gcatccgggtg	tttcattctt	tgacggacca	tcagacgaat	atctgcatcg	gtttaaagcc	2040
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<210> 1549

<211> 894

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (778)

<223> Identity of nucleotide sequences at the above locations are unknown.

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aaagcttttc	cggtaaaaaa	agagattctt	ggcaagaaaa	gttttcttga	attcgatggc	180
gtattttcaag	aagcagagat	tttcgtcaac	ggacacttgg	caggcactca	caaaggagga	240
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<210> 1550

<211> 1026

<212> DNA

<213> B.fragilis

<400> 1550

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ttgtcggcgg	ttcttcccga	ttgtcgcgat	acggttgtaa	agctggagcc	tccggtgttt	180
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gacacacctt	atattataga	ggtcaatggg	caggagagacc	atatctatca	ggatatgtat	960
acggaaaata	agatatatgc	caatcagata	aaaacgatag	aatcactttt	caatggaaat	1020
agatga						1026

<210> 1551

<211> 1236

<212> DNA
<213> B.fragilis

<400> 1551

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ggcggaatg	tatcgctga	aggcgagacg	gaaggcgag	gagaacaaag	tccgtttatg	1200
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<210> 1552
<211> 621
<212> DNA
<213> B.fragilis

<400> 1552

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<210> 1553
<211> 780
<212> DNA
<213> B.fragilis

<400> 1553

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gttgtagaag	atatcttcta	ttcgggagat	accggaccgg	ccgcctatat	agcgcatcat	720
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<210> 1554
 <211> 1281
 <212> DNA
 <213> B.fragilis

<400> 1554						
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gaagaacagg	aacctcaaca	ggagaaacag	gataaggaaa	aatggacaat	gcaggttgcc	180
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<210> 1555
 <211> 1260
 <212> DNA
 <213> B.fragilis

<400> 1555						
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<210> 1556
 <211> 477
 <212> DNA
 <213> B.fragilis

<400> 1556						
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tcttttgtca	ccgtattcta	tttaaaactat	ttcctcctcg	ttcctcatct	cctcttccag	240
gaacagaaga	ataaatacat	catctacaac	atcttattgg	tctgcctcat	cggactgctg	300
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cccggatggg	atTTTTTTTcg	taagagacat	tctaagcctc	atcttcacca	tccgactgag	420
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<210> 1557
 <211> 1548
 <212> DNA
 <213> B.fragilis

<400> 1557						
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<210> 1558
 <211> 1188
 <212> DNA
 <213> B.fragilis

<400> 1558						
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<211> 450

<212> DNA

<213> B.fragilis

<400> 1559

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<210> 1560

<211> 960

<212> DNA

<213> B.fragilis

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<210> 1561

<211> 804

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<212> DNA

<213> B.fragilis

<400> 1561

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<210> 1562

<211> 864

<212> DNA

<213> B.fragilis

<400> 1562

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<210> 1563

<211> 1299

<212> DNA

<213> B.fragilis

<400> 1563

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<210> 1564

<211> 1608

<212> DNA

<213> B.fragilis

<400> 1564

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<210> 1565

<211> 1425

<212> DNA

<213> B.fragilis

<400> 1565

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<211> 555

<212> DNA

<213> B.fragilis

<400> 1566

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<210> 1567

<211> 186

<212> DNA

<213> B.fragilis

<400> 1567

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<210> 1568

<211> 1512

<212> DNA

<213> B.fragilis

<400> 1568

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<210> 1569

<211> 213

<212> DNA

<213> B.fragilis

<400> 1569

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gttgtgtctc	tctatatttc	taattatata	tccttattct	atagggtata	cctaaactct	180
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<210> 1570

<211> 330

<212> DNA

<213> B.fragilis

<400> 1570

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<210> 1571

<211> 618

<212> DNA

<213> B.fragilis

<400> 1571

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618

<210> 1572
 <211> 936
 <212> DNA
 <213> B.fragilis

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<210> 1573
 <211> 948
 <212> DNA
 <213> B.fragilis

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 gacatacatc ttgaggagat gcctcatgcc ttctgtctga tcatcctggt atccgtattc 900
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<210> 1574
 <211> 185
 <212> DNA
 <213> B.fragilis

<400> 1574
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 gggggtgtgt tgaaattcgc gctatgtgga ataacgaaat atgccggctt actctttgtt 180
 ttccg 185

1572 1573 1574
 936 948 185
 DNA
 B.fragilis

<210> 1575
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 <212> DNA
 <213> B.fragilis

<400> 1575
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 caagacggta accacgccta caaacttttc ggtaatctgc tgaaaaacgg tacactggac 240
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 gatgcctgga aagacggaag catcagtggga atctgcgcca aagggaactt tgaggtagac 420
 ttgtcatgga aaaacggaca gcttgcagaa gcaaccatct tctcaaaagc aggcgaaact 480
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<210> 1576
 <211> 270
 <212> DNA
 <213> B.fragilis

<400> 1576
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 ttcagaaagg agcaagaaaa gaatgacata catacagtaa cctctaataa ttatgcttat 180
 gaagtagaaa aaacgaatcc tttaaaaacc ttattccgga aaaaaataa aatccggaat 240
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<210> 1577
 <211> 189
 <212> DNA
 <213> B.fragilis

<400> 1577
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 attttataa 189

<210> 1578
 <211> 288
 <212> DNA
 <213> B.fragilis

<400> 1578
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 aatgttactg ccatccggat ctactacta acgttctact atctttattg taaaatccaa 180
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<210> 1579
 <211> 1164
 <212> DNA
 <213> B.fragilis

<400> 1579
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<212> DNA

<213> B.fragilis

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<213> B.fragilis
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[illegible]

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<210> 1583

<211> 1032

<212> DNA

<213> B.fragilis

<400> 1583

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<210> 1584

<211> 231

<212> DNA

<213> B.fragilis

<400> 1584

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cggtcagccc	ggattaagac	agaaaagaga	tcagcacccc	tgccgctacg	gcagacccga	180
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<210> 1585

<211> 432

<212> DNA

<213> B.fragilis

<400> 1585

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gaaataggag gattgggcat tttcctggta cgtgaaatga tggatgacgt agcgtatacg 360
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<210> 1586
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<212> DNA
<213> B.fragilis

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<210> 1587
<211> 453
<212> DNA
<213> B.fragilis

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<210> 1588
<211> 1065
<212> DNA
<213> B.fragilis

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<400> 1588

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tgctggaaaa	taaaaaagaa	atatccggaa	gccaacattg	tcgtgactcc	ttccgatcaa	360
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<210> 1589

<211> 1110

<212> DNA

<213> B.fragilis

<400> 1589

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<210> 1590

<211> 1752

<212> DNA

<213> B.fragilis

<400> 1590

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<211> 318

<212> DNA

<213> B.fragilis

<400> 1591

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<211> 1944

<212> DNA

<213> B.fragilis

<400> 1592

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<210> 1593

<211> 1152

<212> DNA

<213> B.fragilis

<400> 1593

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tgtgctctta	atattccttt	caatcttaaa	gcattaatct	ttatgagttc	gcctaaaata	180
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attaccaga	catttactga	ttgggaactc	cttttggtgg	atgacggaag	tcccgatcat	300
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caacaagctg	ttaaagaaca	agctgacatg	gtcatatgcg	actttatgat	ggaataccct	540
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gattatgaaa	aatccaacta	ctatggccta	acattagttc	ttcgtggcta	caatttcaaa	1080
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agaatgctat	aa					1152

<210> 1594

<211> 1650

<212> DNA

<213> B.fragilis

<400> 1594

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attctttctg	cacaattttac	ttgtacggac	ggaattgtat	atcccaatgt	ggtattgatt	1620
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<210> 1595

<211> 204

<212> DNA

<213> B. fragilis

<400> 1595

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gcctggccgg	aggaacacac	acaaacaaaa	caaataaaag	cagtcacgat	tcgcacggg	180
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<210> 1596

<211> 1473

<212> DNA

<213> B. fragilis

<220>

<221> unsure

<222> (145)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1596

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gaggatatgg	aggatgtggt	gttcngaaac	cctgaacaat	ttcgtcgggt	ggctccttac	180
tttcccgaag	aggtgtttga	gcatttgcct	gatctgcttg	cgcagggggt	gaaggcggcc	240
ggcaattatc	gggaacgcga	tatgttgctg	atggcgatga	tcaccaatat	cagcgcctgt	300
ctgcccaggg	tgcgtgtatt	gtacgatcag	gtgtattact	cgccgcatct	gtattacatg	360
gtgatagccc	atgcgggagg	cggaaagggg	gtggtgtctc	tggccggctt	gttgcccgga	420
gagattcacc	gctattatga	gaagcagaac	gaggagatgc	gcctggtgta	tgataaggcc	480
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gagctggaca	tgggtgcggg	agctatccgg	aatgattacg	gaaagcacga	tgatgtgttt	720
cgggcggctt	ttcaacacga	agtggtttcg	gccgatttca	aggtgaacgg	ccgtcaggtg	780
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gaggtggtga	acgagcggga	tgattcgccg	ggagcgatcg	tgcttcgtca	cgggctgatg	1140
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tatgatgcga	tggatcgtgc	tgtagagatg	gggatctcgg	tacctacttt	taactgctta	1440
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<210> 1597

<211> 1380

<212> DNA

<213> B.fragilis

<400> 1597

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ggacatcccc	acacagcatt	tcaaagcatt	cacattgcag	ggaccaacgg	aaaaggttcc	180
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gaatacgtca	tcgcttttgt	ggaagaccat	cgtctgttct	ttgaacctct	gcacacctct	360
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gctgtcattg	aagtcggatt	gggagggcga	ctggactgta	ccaacatcat	ccgtccggac	480
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cgaataaccg	gacagtatac	agatcatcag	ccgaataacc	cagcagaaaa	agatacacag	780
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gctcagttac	aacagatcgg	agcttctgcc	ggactgcaag	gaaaggctta	tcccgatgtt	1260
cagtctgccg	taaaggccgc	acaagaaaaa	agcctcccg	aagacctgat	cttcgtagga	1320
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<210> 1598

<211> 267

<212> DNA

<213> B.fragilis

<400> 1598

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caccactctt	ttttaatcca	cagttctctt	ttaattcaaa	ttttattgag	atggttcaaa	120
ggttataatt	gtcctacgaa	aattttctggt	aagccgctgc	taatttttta	tcatattgat	180
tctgctcata	agcaggacca	ttataacgtt	tggcaaactc	tgcccagtct	ttggcttgca	240
aagcggaaaag	cattccggat	tgttttga				267

<210> 1599

<211> 1065

<212> DNA

<213> B.fragilis

<400> 1599

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gttcgttctt	ccaatctgga	gtcgttacgt	ttgctttcaa	tgtttttcgt	tttggttagta	120
catgccgatt	ttcaggctct	tggtatgcct	gacaggacag	aaatgacaat	tcttccttta	180
ttttctgtat	ttcgaattat	tatagaagca	tttgctatcg	tctgtgtcaa	ctctttcgtc	240
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cagtgtgcat	tctttttaat	tggtatctat	acttttacaa	tattgattgg	cattgaacca	360
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tgttatttag	gtatgtttat	tatggctccc	atcctcaatg	ccttcggtga	aaaaactgac	480
aaaagaacat	ttagtacagt	gctgctctct	ttttttatct	tccagacaat	atatggctgg	540
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ttggtaataca	cgggtctatt	attaacattc	tttacagcag	ctattttaat	agataagata	1020
cgtctctata	tatggaacca	ttttgtatct	aaatatatca	gttaa		1065

<210> 1600

<211> 1266

<212> DNA

<213> B.fragilis

<400> 1600

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gaaaatatcc	ggaccattga	aacgggagga	acgactgttg	ccgcctttga	ggacaatgta	180
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aacggcaacc	tggaactggg	ggcactggac	ggaaacggta	ttccacaact	cagcatcagc	300
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ggagagtatg	ccgtaggagt	gtatgccatg	tatgtggaag	gagaagttaa	cggaggattt	1020
cattttgcc	tccccctgcc	cggaaagaaa	tggaaccgga	atcatgctgt	caggatgaag	1080
ccggctgagt	tttttgccgc	cgaatatagc	atggtatcgt	ggggcgagta	tgccgatagg	1140
aaaatgggat	atacctatca	gacacgaccg	gcagaaaacc	ggagcaacgg	attctttcag	1200
ccggaatata	tacggcattt	cctgataaaa	agtatcgaaa	aagagagaaa	caaaaaacag	1260
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<210> 1601

<211> 753

<212> DNA

<213> B.fragilis

<400> 1601

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ccggaattta	cagaagaaga	aatcaaatg	atgatagatg	ccataaatgc	ggtaaagccg	480
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gatgcaactgg	aggtgaccgg	acatatagga	actatcggag	cggatttcga	cttctttgcg	600
ggtacggttg	aacgtgctcc	ggtccgggtg	caagagcacg	gactggaatg	gctatatcgc	660
ttgatcaaag	agcctaggcg	catgtggcgc	cggatatatca	tcgggaatgc	cctgttcctg	720
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<210> 1602

<211> 813

<212> DNA

<213> B.fragilis

<400> 1602

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caagaaatga	aagaggcagt	tattgatatt	caacagaaaa	acaagttgga	tgctgatgga	180
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gtgctgtccg	cccgttttat	caaacaatcc	ggaatgcttt	ccgctttgca	agccaaagac	720
tgggcagagt	ttgccaaacg	ttataatgg	cctgcttatg	agcagaatca	atatgataaa	780
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<210> 1603

<211> 195

<212> DNA

<213> B.fragilis

<400> 1603

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gcagttacgg	atgctccgtt	ctatgggaat	ggtacgagtg	aacgtttatt	taatatcgg	120
ctgtgtctgc	cttcggggacc	tacattgaca	gatgaggata	tcaggagagt	ggtggatacg	180
atcaggaaga	tgtag					195

<210> 1604

<211> 756

<212> DNA

<213> B.fragilis

<400> 1604

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gacttgtaaa	aagagctgtt	tactgtctctg	aaaggtagcg	tgattcctgt	tcagcgtgtc	180
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756

<210> 1605

<211> 831

<212> DNA

<213> B. fragilis

<400> 1605

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tttgaacggc	ttaaaaaaga	aaacaaactt	catcaggaat	tctgcacttt	tctgagccgt	420
aatatgagaa	actctttccg	aaataatctc	tatgatgccg	tagacagtag	taatggttct	480
gtgaataacg	atgtttgtgat	tagcagactg	acagatgtcg	tacgtaaaaa	atttctttac	540
gatacagatc	ttgatgatct	ttttgccgga	gaagatggag	aaaaacttcg	tgataccgct	600
gaaaagaata	ttataaaagc	gatggaagct	attgtaaaaa	agctgtcggg	agatgccaac	660
tttaaaagtc	ttcattcatt	tccacagctg	gatgtggcca	tcacggctga	tgaactgatg	720
aatatgcctg	aagaagcgat	acacagtttt	aagatcaagt	tcagccctcg	caattattca	780
gtcagtcaaa	cggatgatga	ttcgttactg	gaagattttg	tgatgcgata	a	831

<210> 1606

<211> 537

<212> DNA

<213> B. fragilis

<400> 1606

aatcaaaaaa	acggattgac	tacaatgaaa	ttaagtaa	tcttatcgag	cagaacagga	60
aaacgtttct	ataacctctg	ttattgctgg	ggagcctgtc	tggttatatt	gggagccgta	120
ttcaaaatcg	ctcacatgcc	ttatgataat	ctgtttttaa	tgatcggatt	atttacggag	180
gtattcatct	tcttcatctc	cggatttgac	gaaccggcaa	gagagtacaa	atgggaaagg	240
gtgtttccgc	tattgaatga	taaaaacgca	aacataaatc	cccatacagg	agtatcggat	300
acactgatga	cagaaaagta	catacaacag	ctgaaaagac	tggaatacaa	cgtgtgtaaa	360
ctcaatgaaa	cgtacgaagc	gcaataaag	ggaatgacgg	aacacgctaa	gtcgttgaac	420
gagatgaatt	cggaggaact	gaaaaaggag	acagaaaaaa	tggcagcata	catagaatta	480
ctgaacaagc	aatatagtca	gatgctgaat	gccatgaatg	taaaaaccgg	gaaataa	537

<210> 1607

<211> 192

<212> DNA

<213> B. fragilis

<400> 1607

ttatggaaaa	aaaacgacaa	gtttaagagt	ccgaacgaat	tgcttaaaga	gttgtccgga	60
cagggtgtttg	ccctgggtgcg	tgagcttccc	aaaccgcttt	cgagagaaga	gatgcgggag	120
ttgaaacggg	tgtgccgctt	cctgaacaat	acggtgaagg	atcaggagcg	gaaacaggag	180
gtgagaaaaa	aa					192

<210> 1608

<211> 243

<212> DNA

<213> B. fragilis

<220>

<221> unsure

<222> (145), (184)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1608
 aaaacacgaa aaagacttag acgtttccct cgaaacatcc aagtcttttc ctctaaactc 60
 ttaagtcttt tcggaaaagg ctttaagagtt tgtcatacaa tcattgggtg gtccgggtgt 120
 ttcgaagggc aaaagtccaa agggnaactc tatgagtcag tttccggcaa gccccgcgga 180
 gttntgatata acatatctcc atctttatca attattttta agctctatag tcctcatgaa 240
 taa 243

<210> 1609
 <211> 606
 <212> DNA
 <213> B.fragilis

<400> 1609
 agagtaggaa aaaataataa gaaatatatt atggatgaga aattattacc ttactttgag 60
 aatgttaatg atggaggaga acagggcaaa tacttaaaag aatttggaag tgaagaaacg 120
 caaggaggta tttgtctaca cttatcaatt acttggttat atctatggca taacagcaca 180
 aataaagctc cgaatacgat atggcaggaa atgaaaactc ccactttaat tcaacaaata 240
 gcaagcaacc aaagaagtta ccaacaatat tatccgaata ttgcagataa tgtatcttta 300
 gctactcgta actcccttca tgtaacaggg actaacgcag gagaaattta tcagataacg 360
 accaatgcac tagtcaagag taacatgctt ttgtatgtca tcaatttaga aaaagaccat 420
 aagccagtcg gaagacatgc cattgcagca attgcaacaa gaggacgttt ctatttgtac 480
 gatcctaata ttggtgtaat gtcagtgcct atgccaata tgaaagaact aatagaaaaa 540
 atcccttata tatatggtaa gcattctctc aatattagtc agacttctgt ttataacata 600
 tcctaa 606

<210> 1610
 <211> 345
 <212> DNA
 <213> B.fragilis

<400> 1610
 aagagtatga atcctatatt gaataaaatg ggcgcaaatg ccaatgaaca gaaaaaactc 60
 ttgatggagt gtgtgtcaat gcttgaaaag tatgtgaaca gatttccggc agaaaagggg 120
 tgtgcttcat tctccggaga agatatgaag ctgtggaagg aagtttattt tccgaaactt 180
 gttcagacgg atattttgtt ggacggtaaa tttttctgtg gcacgtcgtc cggtaatagt 240
 ggtattggta cagacgggta ttttaccggg tatgaatttt tccagtttat ttatcgtgcc 300
 tacaaggcac tttatgaact ggaaaaggct tcacaaatga gatga 345

<210> 1611
 <211> 972
 <212> DNA
 <213> B.fragilis

<400> 1611
 tactcaatga aaaagagaga gtttaaaatt tcctttttcc tccatgtgtg ggaaaggaaa 60
 gcggaagaga tttcgtgga agagtttcat aatgacctca ggggagcacg ctggaagggtg 120
 cttgccgagt cgtaccggcg gtggatgcgg acgggcatga cagaggaggg caaaagggtg 180
 aaaggggctc tgaatgcggt ggtcgtggcc ggcaagtgcc ggggaggaca tgcggcgaac 240
 caggtgaccg agctgaacgg actggcgtg ttcgactttg atcattgcct cgagatgctg 300
 gccgggatga aggagaaggc cggggcgctg ccttatgtgg tgggggcttt tgtcagtatc 360
 tcgggtgaag ggctgaagct gattgtgctg atcgatgccg agaatgccgg gcagtatgcg 420
 gtggcttatc ctgtcgttgc ccgtgagttg gagcgggtgc tggggcatcc ttgcgatatg 480
 tcgtgccgcg atctgggacg ggcgtgctac gcttcgtatg atccggaggc gtactataat 540
 cccggtgccg ggggtgttcc gtggcgggag caggtggacg ggctgttgca ggcggaaggg 600
 gagtgttccg cgcagtcggt gggcaaggct tgtccggcgg gcgttgcttc cgaagcgggg 660
 gatggcttta tgcaggtttt cctgaatgat tttgatgccc ggaatccgtt tgtggcggga 720
 gggcgccatg cgtttgtgct gaagctggga cgtgttgccc ggtataaagg tttttcggcg 780
 gaagaaatgc ggctgttgca aaaagcagtg gttgagaaat acgcgcaggc tgatttcggg 840

agcggagaaa	tagaaaaaac	attatcgtct	ggttatcagt	atgtttctgt	caggagggcg	900
gacgctgtca	tggcgagtca	ggggccaaaa	gtccaagggc	cactctatgc	tctcagagga	960
gggggagagt	ga					972

<210> 1612

<211> 246

<212> DNA

<213> B.fragilis

<400> 1612

attaagatga	agcggataac	ggacaggaca	aatttttccg	tcataaatac	ggtgggtgaac	60
tatagcgaag	ctccctatgc	tgtctgtccc	caatgtaata	tccggacggc	ctgcagaaga	120
tttccatctt	ccatacattc	cgtccggcat	ctgtaccggg	acaggtcgac	aaccccaaaag	180
cacaaatatt	ataaagacaa	aatacaaaaa	aaagctgtaa	tgattcctat	ttttacccat	240
atataa						246

<210> 1613

<211> 1350

<212> DNA

<213> B.fragilis

<400> 1613

aaagtatcga	aaaagagaga	aacaaaaaac	agttttaata	ttttcttaat	gacaaaaatg	60
attatgaaaa	agagtgaact	atttaaaata	ggtgtgtgtg	tgatggcaac	gaccttggga	120
acaaccggat	gctctttcgg	agaagacgag	aagaaaccgg	aaattgtagt	ggatcctgcc	180
gaaaaaacaa	tagaataacta	cattgcaggt	aaagtgcagg	aaggaacgac	cgcgctgtcc	240
ggtgtagaag	tgaaagccgg	tgaagtaacg	gctacgacgg	atgcggaagg	ggcttataaa	300
ctgacagtgg	acagcaagaa	ggtgtacacc	gtgacattca	gcaaagaagg	gtatatgagc	360
atagacaatg	caacggcaac	catcgcagac	aatgcggcaa	accgcagtat	ggtgagtctg	420
agtgtgaaat	taagcaagaa	agctccggaa	aaagaagtga	aggccgatgc	ggaagaagaa	480
gtgggtgtaa	ccgataaagg	agacagcaat	atttctcagg	cagaagcagc	tgtaattatt	540
cctcccaaag	ccatagaaac	aactacaacc	gtaagcgtga	ctccatatga	agaaccggct	600
gccgtgacaa	caaccgtaac	accgggaaat	aatgtggaga	ctccggtagc	gatcgcaaac	660
atcgaagtgg	aaacagccca	agaggtcact	ctggccaaac	cggtaacact	ggcaatcata	720
aacaaagctt	cggaaacatac	aacgttcgaa	aatgtggaag	tgtacaatca	gaaaacaacc	780
acaagggccg	gagaaaactg	gaacaaagtg	gcagatgcc	tttatgactc	ggaaacgaac	840
agctataaat	tcacattgcc	cgcaggcgca	tcactgtccg	gaaaatattc	gatgcgtgtc	900
aagagtagca	agaccacagg	aaaagaacgg	ataggcgaga	caaacaagga	agagaaaaaa	960
agcaatgaag	gcaatatgac	tgccattccg	gaatacaaaa	tcaactttga	ggctacggcc	1020
ggatgggaat	atactgtcag	tccggaaaag	gcgctgatga	atgcaggcgt	agacgctgcg	1080
gatgcccaag	gcatgggcac	gacgatcaac	agtgccattg	aagcgcagga	aggaacgacg	1140
ggaacttata	aagtggctca	cgaactgata	gcggttatca	gcggtaacca	tatcctttat	1200
tacctgaatc	aggctaaata	ttgcgaaaag	acatatacat	tcaaaatcag	tggcggaaga	1260
acagtgacca	tcaccctgaa	attctataca	ggaatgcaga	ttacttacac	caacgtggaa	1320
gcaagccagc	actcgggagg	taagatttaa				1350

<210> 1614

<211> 1212

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (250)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1614

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atagctgcct	ataaagcttg	ttacatcata	cgtggcctga	tcaaacaggg	agctgaggtg	120

caagtcgtaa	ttactcccgc	cgaaaaagaa	tttatcactc	cgataactct	ctctgcgttg	180
accggcaaac	ctgtcatcag	tgaattcttt	gctcaacgtg	acggtacgtg	gaatagccat	240
gtagacctgn	gatttggggc	ggatgctatg	ttgatagccc	ctgccacggc	ttctaccatc	300
ggaaaaatgg	cgaacggcat	agccgataat	atgttgatta	cgacttatct	ttctgctaaa	360
gcgccggttt	ttgttgctcc	ggctatggac	ctggatatgt	ttgcccaccc	cagtactcaa	420
aagaacctgg	atacgcttcg	ttcgtatggc	aatcatatca	ttgagccggc	ttcgggtgaa	480
ttggccagtc	atctggtagg	aaaaggccgt	atggaagaac	cggagaatat	aatccgggta	540
cttgatgaat	tcttttcac	aacgggcgaa	ctggcgggga	aaaaagtgt	gatcacggcc	600
ggaccgactt	atgaaaagat	tgatccggtg	cgcttcacgt	gcaattattc	ttccggtaaa	660
atgggggtttg	ccttggctga	ggagtgtgcc	cgctcgaggag	ccgatgtggt	actgattgca	720
gggcccgttac	aacagaaaa	atatacttca	catattaccc	gcattgatgt	ggagtccgct	780
caggacatgt	atgaagcagc	catggcgcaa	tacccttggg	tcgatgccgg	aatactgtgt	840
gcagcggtag	cggattttac	tccggacgct	gttgctgaca	agaagataaa	acgggaagga	900
gacgagttgt	tgtctgcatt	taaacccact	cacgatattg	ctgctgcatt	gggcaagata	960
aaaactccgg	gacagaagtt	aatcggtttt	gctcttgaaa	cgaatgacga	gcagcgcaat	1020
gccgaaggaa	agctgatccg	gaagaacttt	gatttcattg	tgtctgaattc	gttgaatgat	1080
gctggtgcgg	gattccgtta	cgataccaat	aagataagca	ttcttagttg	caggggcaga	1140
accgattatc	cgtaaaaatc	gaagacggaa	gtagccagag	atattattga	tagaatgata	1200
aaagaaatgt	ga					1212

<210> 1615

<211> 1368

<212> DNA

<213> B.fragilis

<400> 1615

tcagatgctg	aatgccatga	atgtaaaaac	cgggaaataa	gacgaagaga	catggctaaa	60
tatacattgc	cgccaaggca	aaagatgatt	aacctgctgt	acgtgggtatt	gattgctatg	120
ctggccatca	atatatcgtc	ggatgtctta	gaggggtatg	gacaaatgaa	caacgactac	180
cttccacaaa	taaaaaagct	ggaagaatat	aaccggactt	tactggaaag	aattaacagc	240
cgaaatgata	aagcggcttt	atctgcacag	aacatagatg	cggcggcagg	aaaactaatg	300
gatacactgg	aggaactgaa	agaagatatc	gcccggaaag	cggacaaaga	gaaatatgaa	360
gccggcaagc	taaaggcaaa	agatgacttg	aacgctgtgc	cggagggtatt	tctgtcggtc	420
accgggggga	aagggaagc	actcaggctc	tactgggata	cattcaaaga	agacgcttta	480
tcgctgatca	agaatgatgc	acacagacaa	ctggtaggca	cttacctcaa	tacggaaagt	540
ccgggtaccg	gaatatcctg	ggaaaaggaa	accttctctt	atcttcctgc	catcgggtgga	600
gtgacattta	tcaataaaat	gcaggaagag	gtgttgctgt	gcgtgaatga	agtatatcgg	660
tactgtctgt	acgaagaggc	agaagatgga	aaaggcggag	cttttgatt	catcaatgaa	720
gaccagatga	tagtaataaa	agatggaacg	gtggacctgc	ctgtagtaca	gatcacaccc	780
gccttaacaa	gtatcttgta	taccgactat	gaaaaccgc	taaatatact	gactgcggga	840
ataccgttca	acgaggtgac	attccggatg	acgaacggaa	agataactcaa	aagaggaaac	900
cattgcatag	ccgttcccga	cgaaaaagca	cagacagcga	cagttaccgc	cacacagata	960
aaaaacgggg	tggcaaggca	actggccgaa	taccggtata	ccgtaaaggc	actgcccgat	1020
ccgacacctt	atatactctg	cacggatgaa	aacgggagaa	cgggtacaata	ccggggaaat	1080
gtgcccat	acaaacggct	ggtatccaac	atgacacagc	tgggagcttc	aatcagcgat	1140
ggtccgaaag	ccaactacga	gatcagcagc	tttgaaatgg	tattgatcaa	aggaagcagt	1200
aaagcggtaa	cttcaatacc	caacaccggg	aacaaattct	cggccaggca	aatggaactg	1260
atcagacaat	tggagaaagg	agataaattc	tatatcactt	cgattgttgt	gaccgggtccg	1320
ggaaacaaaa	agaaacagat	tgcataatc	aatgtcgtat	taatataa		1368

<210> 1616

<211> 1257

<212> DNA

<213> B.fragilis

<400> 1616

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ttcagcaata	ttgttgccga	accgcagttt	ctgggtgatgt	atgtcattgc	cttcggtctc	120
ttgtatctgg	gtataaagaa	acaatacagag	cctcttttat	tgggtgccgat	tgcctttgga	180

gtgctgttgg	ctaacttccc	cgggcgaggga	atgggagtgga	tacaggctga	cgagaatggc	240
atgatcctgg	tgaacggagt	aatgaagaat	atctgggaga	tgcctctcca	tgatattgct	300
catgaattgg	gactgatgaa	ctttgtgtat	tatatgctta	taaagacagg	gttccttccc	360
ccgatcattt	ttatgggagt	gggggccttg	acggacttcg	gaccgatgct	tcgcaatctg	420
cgtctgtcta	tattcggggc	tgccgctcaa	ttgggtatct	ttactgtgtt	gttggtagct	480
atcctgatgg	gatttacacc	cagtgaagca	gcttctttgg	gaattatcgg	tggtgcggac	540
ggacctacgg	ccatctttac	caccatcaag	ttggctccgc	atctgttggg	cccgatcgcg	600
attgccgcct	attcttatat	ggcattgggt	ccggttatca	ttccactggg	cgttcgtctt	660
ttgtgtacca	agaaggaact	gagtatcaat	atgaaagagc	aggagaagaa	atatccatcg	720
aaaacggaaa	ttaaaaacct	ccgtgtattg	aaaattattt	tcccgaattg	ggtgactacg	780
gtcgtggctc	tgtttgtacc	gagtgcagtg	cctttgatcg	gtatgctgat	gttcggtaac	840
ctggtgaaag	agatcgggtg	caatactttc	cgtctgtttg	atgcggcttc	gaatagtatc	900
atgaatgcgg	caaccatttt	cctgggtttg	tcggtaggag	ccacgatgac	aagtgaagct	960
ttcctgaact	ggacgactat	cggtattgtg	gtaggaggat	tcctggcttt	tgctttgtca	1020
atagcaggag	gtatcttctt	tgtgaaactg	gtgaatctgt	ttacgaagaa	aaagattaat	1080
ccgctgattg	gtgctacggg	acttagtgcg	gttcctatgg	ccagccgtgt	agccaatgac	1140
attgctttga	aatatgatcc	taaaaaatcat	gtattgcaat	attgcatggc	cagcaatatc	1200
tcgggagtgga	tcgggtctgc	cgtagcggga	ggggtgctga	tctcttttct	gtcttaa	1257

<210> 1617

<211> 1197

<212> DNA

<213> B.fragilis

<400> 1617

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aattttactgt	tattatatac	attctggaaa	gccggtagaa	atatctcgca	aagcatggat	120
tactggcata	atgccggatt	gtgcgtaatc	ctattctcta	ttgtacaagg	ctgccgattt	180
gccagaggaa	atgattactt	tgcgctactcc	agaattttcc	gtgaaggtag	cctgcatgtc	240
gaaaatccat	ttttctcagt	cattaatgaa	ttactcagaa	tagttggtag	taatgagtat	300
agtgttttta	tggtgtatgc	gttcacattt	gcattgtgcg	ccatgatttt	tatgaaagac	360
tatcgcacgt	atgccagata	tatgttccca	ctattcttga	taggcttcat	gaacttcgaa	420
gaaagcatga	tacgccaggc	attcagctac	tcttttttct	tcctatatatt	gaaatatctc	480
tttaagttga	aatttaacaa	gccaaaggat	atattgcata	accataaaaa	attaatatac	540
tgcataatat	ttgccatact	aacattagcc	atacacactg	gcaatattat	aagcttattt	600
gtaatcacca	ccctctatat	attttggcgt	aaacctttcc	agccacagtt	tgccataccg	660
atatatgttg	cgtgtgtcta	catattacca	catatattta	atttcaattg	gctggaacc	720
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ttacccaaac	attatgctct	gataacaatg	cttaatacct	ttattattgg	tttgtgtata	960
gagtctatat	tcgtaaaact	agaaattttg	catcgtatag	gacaaaactc	agatattgta	1020
ggttactttg	ctttagcaat	agtagtatcc	tataaaacaa	ttaaactaaa	acctatccaa	1080
aaagtagcct	atgtctgtct	cctttgggtt	gtttattact	acgtaaaata	cttattcttc	1140
agtgggcgta	ctatgttcat	ctgggatacc	cattatcctt	ttttcaaatt	tatataa	1197

<210> 1618

<211> 1182

<212> DNA

<213> B.fragilis

<400> 1618

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cataacgggt	tgggaagcttt	acagaaactt	ctggaaactc	ccgatttcga	tatcatcctg	180
agtgatatta	atattgccgga	gatggatggg	ttgaccctat	tggctaagg	caatgaactg	240
aaaaatccgg	caatgaagtg	tataatgggtc	tctgcttatg	gagacatgga	taacatacgt	300
tctgctatga	acaaggggagc	gtttgatttt	gcaaccaaac	cgatcgattt	ggatgatctg	360
tcgcggacta	ttgaaaaggc	gatcgaacag	gttcgctata	tccgtgagtc	acagcaggag	420

cacaaccaac	tggaatctat	caaaaatgac	ctggccattg	cgggagaaat	ccagcaaacg	480
attcttcccc	gttcctttcc	tccttttccg	gaactgacgg	aagtgggtga	tatttatgct	540
tccatgactc	cggcaaaaaga	tgtagggtggc	gattttttatg	atttcttcca	gattgacgat	600
gaacgtatcg	ggctgggtgat	tgctgacgta	tctgggaaag	gggtgccggc	atccttgttc	660
atggcggtta	gtcggaccct	gctccgtgca	actgctcttc	gggtgtttc	gtcggcagaa	720
tgccttactt	atgccaataa	gttactgtgt	aaagagagcc	tggactctat	gtttgttacg	780
gtcttttatg	ggattttatca	ttataaaacc	ggcatgatgg	actataccaa	tgccgggcat	840
aatccccctt	atctccttcg	cggcggacgg	actgttgaat	gcttgccctgt	cgcttctaata	900
tttgtggtag	gcgtgttcga	tgatattgaa	tttgagagta	atacattgac	gttcgggcac	960
ggtgacactt	tacttctgta	tacggatggg	gtcacagagg	cttttaacga	caagcgggaa	1020
caattctcgg	aaagtaactt	acaggatata	ttggcgtcta	tgacagaaag	tagttccgca	1080
aaagaggttg	ttacgagtg	attgcagtc	gttaagactt	tctccggaga	ctatcctcag	1140
tccgatgaca	taaccctgct	ttctcttcaa	cgaatcaaat	aa		1182

<210> 1619

<211> 480

<212> DNA

<213> B.fragilis

<400> 1619

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ttgatggaaa	acggaatgaa	caagaaagtt	actgaacctt	atctcgtgga	tgactcagc	120
tttacagaag	cagaagcacg	cattattgag	gagatgaccc	cgttcattac	aggagaattt	180
accgtatcgg	atatcaaacg	agccaactat	agtgaacttt	tccccagcga	agaagaagct	240
gctgaccgct	ggtttaagt	ttaaactgatt	tttatcacac	tagacgaaaa	aagtgggtgct	300
gagaaaaaaa	cgctcgacaca	agttctggta	caggcagctg	acctgcgcga	tgctgtaaaa	360
aagctggacg	aaggcatgaa	aggtacaatg	gctgattatc	agatagggtt	tggtgctgaa	420
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<210> 1620

<211> 405

<212> DNA

<213> B.fragilis

<400> 1620

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atcttatggc	tggaagcatc	cggcagttat	tgtgtactct	gtatggagaa	cgggtgcagag	180
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cagagaaattc	atcgttctta	cgctatcaat	gtgttcaagg	tgaccggatt	tgacaggaac	300
tatgtacata	taggaaaagaa	gatgttgccg	gtcagtgaa	ctcacaaaaa	gaatttttta	360
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<210> 1621

<211> 621

<212> DNA

<213> B.fragilis

<400> 1621

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ttgattgccg	gtcctttgat	tgcaactatt	gaagcggatt	cattatcttc	acaaagatat	120
ctggattatc	tgatgaaaat	cgcatttgaa	tcctatgatc	ctgtgacagg	acggaccggg	180
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gatttcgatt	tccgatattaa	aattctggat	gcactgtcgg	aaacagctga	agaaaaattt	360
tcactggaag	aaggtaaaaag	cgtgaatgag	ccgcaaaagt	gaggaggatt	taaactccgg	420
gcttcactgg	ctcccaaaca	gggagaaggc	agcagcactt	cgaatgtgca	gcagagcttg	480
tcggcaaata	tgaaagtga	agtgaagatg	cgctcaggcag	atatgcctgc	ggggttgctc	540
aatctgttac	atctgacggc	gagcaatatg	caagtagaag	aaactgaagc	tgaagaaata	600

acggaaggag gaaataaatg a

621

<210> 1622
 <211> 582
 <212> DNA
 <213> B.fragilis

<400> 1622
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 ttaaaccggac gaggcacatgaa attgactttt ttcaagcggg tgggggagaa gatccgccat 120
 ccgttccgaa aggaaattcc gaaaacaatt cccgtttag aaactgcccc tcagccggta 180
 gcggataata caaccgaagc aacggcagaa gactcttccg tcataagatc ggcagatcaa 240
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 agttattatc atcccgagat acggatcgtt catgtcggta gttttgtaaa tgccttttta 360
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 cattgtacag ccgtttttcc ggatgaaagc ggtaatttgt atttcacgaa taaagtgact 480
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 aaaatcactg aaattagatt tgaattaaat attaaaaaat ga 582

<210> 1623
 <211> 573
 <212> DNA
 <213> B.fragilis

<400> 1623
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 gcaatgggca tcgaaagttt cctccccgtg caggaagaaa tccatcaatg gagcgaccgc 180
 cgcaaaaaga tcgagcgcgt agtcatcccg atgatgatct tcgtacacgt cgaccgggca 240
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 tccgaagaag ccctcgaagt gtgctcctcc cccctcgccc ccggcgaaca ggtgcgagtc 420
 atcaaaggcc ccctcgccgg actggaaggc gagctggtga ccatcgacgg caaaagcaag 480
 gtggcggtaa ggctggatat gctgggctgc gccatgtgg atatgccggt ggggttcgtg 540
 gagagagtgg gaaaaatgga ggcggtgaga tga 573

<210> 1624
 <211> 1650
 <212> DNA
 <213> B.fragilis

<400> 1624
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 aaatcgaata ctgtaatacc tgttgtcaag ggaaatgtga cagatacctt gtcacttgta 180
 tcatttaacg attttcatgg agcctttgcc tgcgataagg gtgttcccgg agccggccaa 240
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 atgtttcagg aaatggatgt aaaaatgtcc gctgtaggca atcacgagtt tgattgggga 420
 ttaccctatc tgacggatac ggcaaggta tatatgaatt ttgtggcagc caatattata 480
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 aagaatggag gaacgggtgcg ggtggccttc gtagggttga caacgactga tacggcacat 600
 aaaacgagtc cggaaaatat aaagggactg gcttttctgc atcctgtata tgcagcccgt 660
 gtcgagactg cctgtcgggt gaagaagaa ggcaaatgtg atatggtagt actcttgatg 720
 catatcggca ctaacatgaa gaatagagat attatagaag aggagaatgc taaattgctg 780
 cctttcctga aaggagtggga cgcaatcatt tccgggcatt ctcacgaagt tgttcttagt 840
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caattattgg	acgatggacg	caggaataaa	aacggttttc	tgcaaaactc	ttatttataa	1380
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ggttatgaca	gcaaattatt	ttcaggttat	gaaataggag	attttaatag	tcagaatctt	1560
gaaacaactg	tggctttttat	tgattatttg	aagagtctga	aagggtttgt	ttcctctgag	1620
gctgcgccga	tacccatagt	acaaaagtaa				1650

<210> 1625

<211> 228

<212> DNA

<213> B.fragilis

<400> 1625

tctcacacac	ttttttttct	acaagcatat	cctatgccaa	tatccattct	ctgccatact	60
ctgcctacat	atgattttac	tgccaccatg	tcctatgtgc	aaccctctc	cagatccac	120
gctaattgac	cccgttttct	ggctgacctg	aatccggcag	ataaattcat	ggagctcaat	180
ctgccacatg	taggacacct	ttcacatggt	tcattactaa	ccacttag		228

<210> 1626

<211> 777

<212> DNA

<213> B.fragilis

<400> 1626

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aatatcaact	cagaccgaat	cgtagaaatc	tgttatctta	aagtgtatcc	caatgggaat	120
gaagagtcga	aaactctccg	tatcaatccc	gaaatgccta	tccttgccga	atcatctgct	180
gttcacggta	tttatgatgc	tgatgtagcc	gattgtccta	cttttaagga	agtggcaaag	240
agtattgcc	atgatatcga	gggttgatg	ctggctgggt	tcaattccaa	ccgttttgat	300
attcccgtgt	tggcagaaga	atttctgcgt	gcgggtgtgg	atatcgatat	gagtaagcgc	360
aaatttgtcg	atgtacaggt	gattttccat	aagatggaac	agcgtaccct	tacggctgct	420
tataagttct	attgtggccg	taatctggaa	gatgcgcaca	cagcggaagc	tgatacccg	480
gccacgtacg	aggtactgat	ggctcaactc	gatcgttatc	cgggaagagt	gcagaatgat	540
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gtatatgacg	acaatgggg	agaggttttc	aactttggta	aatacaaaag	acagtcggtg	660
agtgaagtac	tgaaaaaaga	tccgggatat	tacagttgga	ttctgaacag	tgatttcacg	720
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<210> 1627

<211> 1107

<212> DNA

<213> B.fragilis

<400> 1627

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aaaccattat	tatctatgcc	taaagtttta	gtagtggcca	cctctcgtaa	aaccaaagga	120
ggaatcactt	ctgtagtaaa	agcacatgaa	acaggagaac	aatggaaaaa	gtttcattgt	180
aaattgattg	aaacacatcg	ggatggaaat	agcgtaaaga	aattatggta	tttagctaca	240
gccttaatat	aatatatttg	tcttctacct	ttctatgata	ttgtacatat	acatgtagga	300
ttaagaacat	cagtcaatag	aaaacttata	tttgacggga	ttgctcttct	gtttagaaag	360
aaaattattg	ttcactttca	tccagcaacg	gaaaagcatc	tattcgatcc	tatgtttagt	420
ggcaatataa	agcattttat	cgaactatct	aataaaactc	ttgtactatc	tcccaaattg	480
atagaatgga	taaacgaagc	ataccgaggg	aataaatata	atatacaagt	gctttataat	540
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ctatcagaca	gaaaaggcta	caaccgactt	attgaagcat	tcagtaaaat	tgctgcaaaa	660
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gctgttaa	ttggtataga	acaacaaact	gaattcctgg	gttggatagc	cggaataaca	780
aaagagagta	tatttcaaca	tgcttccatt	tattgtttgc	ccagttgggg	agaaggattt	840
cccatgggag	taatagatgc	aattgcttat	ggaattcctg	tcattacaac	tcctgtagga	900
ggattagaaa	aagtttttca	cgacggtatt	gatgctatga	tttatgaaac	ttacgattta	960
aagatgttgg	ctgacaaatt	agaacaatta	ataaaatcgg	agacttatag	gaatagtata	1020
gtaaacgaag	cagataaatt	ggtatgtagc	gactttaata	tcatcactat	ttgcaataaa	1080
attgaaaaaa	tatatgagaa	catgtag				1107

<210> 1628

<211> 1137

<212> DNA

<213> B.fragilis

<400> 1628

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gggtgtacct	gcaaaaatta	taaagaaaat	atgatataatc	tcatttgcca	ggactgggtca	120
aataccagca	ataatcatgc	aggtataaaa	tacttatgca	accaaattca	ggagatgtat	180
cctgaaagct	ataaaacctt	cgttattcct	gccttttggga	atgacaggtc	aaaatcccc	240
attcgaatca	tagcaagttt	acaatatcac	tttgctcgat	acaagcacag	actatacaca	300
aaaaagttgt	acaatcacat	aatatcaaag	ctacgaaaag	gagataaaat	aattcttatg	360
gaatacatgg	agaaattttt	tcccatgctc	cattttgcac	aaaaagtga	aagatataaa	420
ttcaacatac	ctctctacgc	aatggttcac	cttggtccaa	gccggttggga	aaaaggattc	480
tcagacaaga	aaacatttga	tgaatggaca	atctgcatcg	ataaatttct	tacccttggc	540
cattcattaa	cccaattcct	tattaccaa	gggctacctg	aagataaaagt	tgttaccacc	600
tttcattatg	tggatgaata	ttaccataac	aaaagacctg	tacgtttgca	taagaatatc	660
cgtgtaatag	ccatgggtaa	tcagatgaga	aacctcaaac	tactaaaaac	aatcgttgat	720
aataacccta	atgtcaattt	taccatttgc	caaggggtaa	atgatttgtc	atcctatttc	780
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atggctaata	ccgatataatc	gctaaatgtc	atggaagata	ccgtaggtag	taatgtaatt	900
gtcacatcat	tagctatggg	attagctatg	atttgtagca	atgttggttc	catcaaagac	960
tattgtgatg	atagtaaacac	tatattttgt	aataactcta	atgtagaaga	cttctctcag	1020
gctataaccg	cattacaaac	agatagaata	cgattgaata	caatgcaaca	atcggcagcc	1080
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<210> 1629

<211> 897

<212> DNA

<213> B.fragilis

<400> 1629

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aacttgatct	actctttaga	acaaaaacat	cgtgtgcaga	ccgtcgaaga	gttgattgct	180
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tccggtgaga	tagcagatcg	tatggcggat	attatgcaag	agatgggcga	acaaaaccgg	660
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gtgtataagc	gggataatga	tcaggagact	aacagtcata	tccgtcgttt	gaccgatgaa	780
gaacgggtgag	aggaactggc	tcacatgttg	agtgggtgcca	ccctgacgga	ggcggcgctg	840
agtaatgcga	gggcgttgct	ggaaccatct	ttgaaagaaa	gaaaaataat	aaaataa	897

<210> 1630

<211> 792
 <212> DNA
 <213> B.fragilis

<400> 1630
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 ggcgcaatcg gacttttact cggacaacgt gccgatgtga aagctatccg gcaaggcgct 180
 tctaaatgtg tcatcgaggc acgattcgat atatcggcct atcacatgga agcctttttt 240
 gaagagaacg agttagagta tgagcccga tgcatacttc gtcgtgaagt acagtcattcc 300
 ggtaaaagta gggcattttat caatgatata cctgcttcgc tcacacaaat gaaagaactg 360
 ggtgagcaat tgatcgatgt acactctcaa catcagaacc tattgctcaa taaggagggc 420
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 gaacaaagta agacggatga ggattatatt cgttttcagt tggacaactc ggaggaggcg 600
 catcttacgg ccggagaaca ggaagagttg gaacaagagg ccgagacatt ggcacacgcc 660
 gaagacatca aggccggact gtaccgggtg gggcaaactc ttgcttcaga tgaaggaggg 720
 ctgcttgccg gtattgaaag aaagtcttgg cgctttgagt gggctgcaga aagtatatca 780
 acctgccggt ga 792

<210> 1631
 <211> 456
 <212> DNA
 <213> B.fragilis

<400> 1631
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 ttgctcgatg cattgaagga gataccggaa caccggttga cattgatatc caaaccggat 420
 acttatgaaa ttacgggtac agtcccagaa tggttaa 456

<210> 1632
 <211> 579
 <212> DNA
 <213> B.fragilis

<400> 1632
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 aacgggatca cagcttttaa tggttcggca aacaacatat tgggagggaa agtctccggc 180
 ggctgtgtgt taaataagat catcggtctg cgcgtcgatg cagaagccgg caacgtatgg 240
 ctgaaaggcg gatacaatgc cgtgacagtt ggtgccggag cggatatcct ggtgaacctg 300
 atgaagaatt ataccgacga agacagaaaa ttccggttga acgccatttt cggattaggg 360
 tacaactact attcgtttgg tgatgattat cccagactgt caaagacgaa taccatgagc 420
 ggtaacttct ctctgcaagc tgctttcagg ctgaattcgc atctgagcat ctttgctgaa 480
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<210> 1633
 <211> 687
 <212> DNA
 <213> B.fragilis

<400> 1633
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gcctatcgcg	cgggacagag	aatttttcgga	gaaagcaaag	tgcaggagat	gacaggcaag	180
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gcagaagtga	acaaacaagc	cataaaggca	gaaagagtta	ttcgctgttt	actgcaaata	360
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atgtcccatg	actatcatct	ggccattaaa	gagggcgagta	cattggtaag	agtaggaagt	660
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<210> 1634

<211> 1044

<212> DNA

<213> B.fragilis

<400> 1634

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ctaaaatgta	tgcgagctat	tatgataacc	aactcacata	tggatattct	atatggagac	120
tattcctatc	tagccactgg	tggggcgata	ggtgatgcac	tgttcttttt	ttgctctggt	180
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gttctatttt	ttggattatg	ttgggtttaag	tgccaaacag	gtataggatg	ggaactattg	720
caaatatcat	cactaattcc	tctattgggc	actacatatt	atttttggag	attgtccaac	780
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aatattttcc	cattaaatct	attagtaata	ttttccacta	ttcttggtac	agcttacctt	960
ctccgctgtc	tttcccgaat	atggagtcag	actttttaaag	atggggatta	tgactggcgg	1020
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<210> 1635

<211> 951

<212> DNA

<213> B.fragilis

<400> 1635

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<210> 1636
 <211> 903
 <212> DNA
 <213> B. fragilis

<400> 1636
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 ggaggaatca tccgagggat catctcgatt atgattctga acaagacact tcagcagaca 240
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 gaaatcgatc catctgatga tatacggaaa gaactagaac ggataatgga agaaagatta 780
 accgggcgta cctattttgta tcacctgaag tcagatcttg cagaggctac gcatcaatta 840
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<210> 1637
 <211> 402
 <212> DNA
 <213> B. fragilis

<400> 1637
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 cagcttccta ttgatgcggc tacgggtgtg atgcctgatg gtgtggaggc gcaagccgcg 180
 cagtcactcg agaataataa acatatcctt gaggctgccc gtctgacaat ggcagacatt 240
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 gcaacttatt ttgacgggtg atttcccgcg cgttcggctg ttgccgtgaa agccttgcc 360
 aaagatgcct tagtcgagat cgagtgcacg cgggcacgat aa 402

<210> 1638
 <211> 885
 <212> DNA
 <213> B. fragilis

<400> 1638
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 ttggcagcaa aaacaacttg ggaatttatt cagaatgtag gtataaatgt taatcccga 180
 accggtgaga agacagcagt caatgtttct ttctctttca ttcaaggagg acgtttgggtc 240
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 cgggttgatt ccacctataa ggatggcagc ggtctgttgg ctctgacaa actgactatt 720
 acaggaaccg gagccaatgc ggccgacttt aaggtaagtg gtgacagtaa gattatcgac 780
 ttgccggaag gtacatatat tatcaaagca gaggggaagc agaaggaagt gattgtcgaa 840
 gtgaaaaaag atacggcaac tccccaggaa gaggtaacgg aataa 885

<210> 1639
 <211> 267
 <212> DNA
 <213> B.fragilis

<400> 1639
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 aaatatgctc ctgaagaaca gcttcctgca aagcagggtg cccaatcacc gggtcctatt 180
 cccggaaaata ttgttgcaac cattacggcg gccgttaatg tggtgactca gggaaaaggg 240
 aaagtggcta aaatcgagaa aatctga 267

<210> 1640
 <211> 1179
 <212> DNA
 <213> B.fragilis

<400> 1640
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 ataataaatt acctttatta taaagactgg catttttaaag aactcccct atcacaacca 180
 tttgtacctt tagacatgaa aggtaaacta agctactgga taaaatacag actaatgagt 240
 tgggtagtaa ataaggatatt acctatattc aatgggaaca tgagacgaag gttacacaac 300
 tatcaatcat ttatagatag tgagcgcttt tcagctcaat acaaatcaat ggatgagttg 360
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 gtagatatga gtaatcgcat actatacgaa gattccatag cagaattaaa tgtaatgact 1080
 gcatgtagtg aagtgaccaa caatcacttg agattattgg tcaacaactc aatagattac 1140
 ctcaaaagta taatagagaa taaagaacaa aaatgctaa 1179

<210> 1641
 <211> 576
 <212> DNA
 <213> B.fragilis

<400> 1641
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 aagcgtttca ataatacata gcctaataata aaagactggt tattacacaa tgaaatatgg 120
 tatactcttc actatattcg tcattttgcgt tatgtggaat attataaaaa caccaacaaa 180
 aataaaattc tattttttcta ccattttttc cgttataaac gactaggttt caaactaaaa 240
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 tttggactcg gagccaaaat tttcggttcc attataatag gaaacaacgt taccatagga 480
 gcaaatgcag tggtcacaaa ggatattcca gataacgcca tagttggtgg gataccagca 540
 aaagtattaa gattcaaaga aataaatata ctataa 576

<210> 1642
 <211> 585

<212> DNA

<213> B.fragilis

<400> 1642

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<210> 1643

<211> 1611

<212> DNA

<213> B.fragilis

<400> 1643

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<210> 1644

<211> 678

<212> DNA

<213> B.fragilis

<400> 1644

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aagttaaaga	aaatattagt	aggacaagct	gaaatccgaa	ttaaccggga	ggcattaaga	180
gaactcgaca	gagctttttc	ttctccacga	cgcttattta	aatctcaatc	tcgttctgcc	240

atcttactaa	tcaaagattt	cctattgtac	agacctaacg	tctttacagg	taaataccat	300
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cacatggttg	gcaataaaca	gttatttgta	aaatcccagt	tggatatagg	ggatccccga	420
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gtttatggtg	gctatactat	tgataagaac	cgaacaataa	tattgccaac	tacagctact	540
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<210> 1645

<211> 2442

<212> DNA

<213> B.fragilis

<400> 1645

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<210> 1646

<211> 714

<212> DNA
<213> B.fragilis

<400> 1646

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<210> 1647

<211> 621

<212> DNA

<213> B.fragilis

<400> 1647

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<210> 1648

<211> 1230

<212> DNA

<213> B.fragilis

<400> 1648

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<210> 1649

<211> 768

<212> DNA

<213> B.fragilis

<400> 1649

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aacctgctga	ttcacatgag	tcaccatata	ggacttcagg	cagatgtaga	gaagcaactt	720
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<210> 1650

<211> 1863

<212> DNA

<213> B.fragilis

<400> 1650

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<210> 1651
 <211> 798
 <212> DNA
 <213> B.fragilis

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<210> 1652
 <211> 849
 <212> DNA
 <213> B.fragilis

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gagatacaga	atccttttgaa	ttttgtcatc	aatttcagta	aactgtccgg	tcaattgttg	180
gccgacctgg	ccgataggggt	ggatgaagca	aaagctcgta	ttccggaagc	ggaactggaa	240
gatatacaaag	atatactttc	cgggctgaga	gagaatgtgg	acaaaatcaa	agagcatggt	300
gatcgggcta	tcagcattat	tcgtgggtatt	ttgctttact	ccagggggaa	agaagacgaa	360
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<210> 1653
 <211> 1323
 <212> DNA
 <213> B.fragilis

<400> 1653						
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atggccttgca	gtgatgcatg	tacacatgat	gctatcaaga	ttgtggaaaa	gaactgtatg	180
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agcaaatata	tacaaagcga	tactcaagga	atatataaag	aagttataga	gagactaaaa	540
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gcactctata	aattgggaac	aatatatctg	gttaagtacc	aaaagaaaca	attaatcagt	1260
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<210> 1654

<211> 999

<212> DNA

<213> B.fragilis

<400> 1654

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caacgaatga	cgacacctca	aattgcacta	acatttccta	taatttatta	ctcactctat	960
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<210> 1655

<211> 237

<212> DNA

<213> B.fragilis

<400> 1655

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tcctgtcact	tgcgtttgaa	catagaccgc	atgaagtcga	aagcagcttt	tgacgcattg	180
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<210> 1656

<211> 1218

<212> DNA

<213> B.fragilis

<400> 1656

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ggtgctatta	tcatgcagga	ggatgaacaa	ggattccttt	atccacatat	caacactaca	180
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agcaataaaa	aaaatgtaa	tccccatatt	ctcgctcttc	atcatcataa	tgaaaaaact	300
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<210> 1657

<211> 924

<212> DNA

<213> B.fragilis

<400> 1657

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cgtctgagga	atccatcata	ctatccggaa	ggaagtgtat	atctggctga	atataatccgt	180
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<210> 1658

<211> 186

<212> DNA

<213> B.fragilis

<400> 1658

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atatggttac	ttgtttat	attgtatgaa	agtaaggaaa	tgcaatacat	gattgattat	180
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<210> 1659

<211> 363

<212> DNA

<213> B.fragilis

<400> 1659

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taa						363

<210> 1660

<211> 195

<212> DNA

<213> B.fragilis

<400> 1660

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gaaatcacta	tttga					195

<210> 1661

<211> 1116

<212> DNA

<213> B.fragilis

<400> 1661

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tcctacaaga	tgcgtttgat	acattacttg	gtaaaaagca	aacattacac	gatggcccat	1080
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<210> 1662

<211> 1398

<212> DNA

<213> B.fragilis

<400> 1662

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gactacaatt	gcctgaagaa	ttttcaggag	aatgatattt	atcttccgat	tgttgttttg	180
gaagaattgg	ataagttcaa	gaagggaaat	gaacaaatca	attacaatgc	acgtgagttt	240
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aaatatccga	agatgaaaaa	tattctggtg	accaaggatg	tcaaccttag	gatgaaagcc	480
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<210> 1663

<211> 210

<212> DNA

<213> B.fragilis

<400> 1663

ccccattttt	ccgaccccg	aaagccacaa	ttttataaac	ctcccttgat	tcacaaacct	60
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ctgggaccca	ttaataacaa	cctctcttct	gacaatcgct	gttggcattt	atcacacaat	180
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<210> 1664

<211> 507

<212> DNA

<213> B.fragilis

<400> 1664

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gaaaaggcgg	aagcacgaca	gaacgctatc	cgacaatacc	aagacggatt	gatgcgcgaa	420
atgcagaacc	gcaacaagcc	gagaaccgcc	accaaagcga	ccgtccaaga	agtacaacaa	480
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<210> 1665

<211> 645

<212> DNA

<213> B.fragilis

<400> 1665

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ggtaccaaca	atatcggcga	gtttctggca	ctcgtacacg	gtcttgcttt	gctgaagcag	420
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gaacgcgcag	aaaaatggct	taaagaaaat	aagtatacca	ctcccatatt	gaaatgggaa	600
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<210> 1666

<211> 636

<212> DNA

<213> B.fragilis

<400> 1666

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gagcggattg	tcaatttagc	tgctactcat	gtgccttctg	ctttcaactc	tcaatcgact	180
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caggaagcat	tcagcagtta	taaggataac	ttccccgggt	ggtcgctgca	gacttctgcg	420
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cattacaatc	cgctgatcga	tgaagaagta	cgccatacct	ggcatttgcc	tgaagagtgg	540
catctgattg	ccgaaatgcc	gtttggactt	ccggtacagg	gacctggcga	taaagatttt	600
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<210> 1667

<211> 1221

<212> DNA

<213> B.fragilis

<400> 1667

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tctgatttta	atgagcgttc	tttgcatctt	gttgtttgca	tggagaagca	gctttctgct	180
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<210> 1668

<211> 2145

<212> DNA

<213> B.fragilis

<400> 1668

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------------	------------	------------	------------	------------	------------	----

acaatcattg	cagaaaagcc	atccgtggca	cgtgagatcg	cccgcacgt	gggcgcgaca	120
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<210> 1669

<211> 480

<212> DNA

<213> B.fragilis

<400> 1669

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gcgaccgacg	aagccttcat	ccgtgaacgc	gccgaccgtg	ccgccggaac	gtatgaatgg	180
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<210> 1670

<211> 333

<212> DNA

<213> B.fragilis

<400> 1670

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catcagccc	tattcgccgt	accgggcgtt	cagcgcaag	gtctgccata	cgaggacgga	120

agacgatgcc	gogccgaagc	cgatacatat	ccactggctg	atgccgacca	tgtaaaggat	180
gacgaacagg	acgaagagag	ccagcagacc	tccgcagaag	atgaagaggt	actgagcctt	240
cagacccttg	aactcgaccg	gacggccgat	acccttgttt	atcgggtatt	cagccatacg	300
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<210> 1671

<211> 903

<212> DNA

<213> B.fragilis

<400> 1671

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atgaaaacaa	tatttcggga	gcttcgggata	gatatgtctg	aatgaagaa	atataaatta	180
cataacggat	atgaattgga	agatgtattt	tcgatccgtc	cccaaacaat	atctgccccat	240
aaatggctta	aaagagtaat	tgtgtatgca	ttcttttcga	ttatacgaga	aaaatccgaa	300
gaagaattat	ccattcataa	atacacacaa	cacaagagat	ggacattagt	atattacaaa	360
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tggtcaaacg	tcaagaagac	acctcacata	cttccggaaa	gctggatttc	gatagatata	900
ttaa						903

<210> 1672

<211> 903

<212> DNA

<213> B.fragilis

<400> 1672

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ttattctata	tcatatataa	atggatcatt	ataatcaa	tatgtttcca	cttcagacgt	840
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tga						903

<210> 1673

<211> 507

<212> DNA

<213> B.fragilis

<400> 1673

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cccgataatt	cggactatat	caacgggctg	ttgcgtatgc	gggtgggtgga	tgagattatc	360
ctatataccg	tgcctttcat	atcgggaacg	ggacggcatt	ttttcaagtc	ggcactgccc	420
gaagcacgct	ggacactctc	ctcacaaaag	agttattcca	acgggtgtgta	cggagcatc	480
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<210> 1674

<211> 3069

<212> DNA

<213> B. fragilis

<400> 1674

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<211> 1167

<212> DNA

<213> B.fragilis

<400> 1675

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<210> 1676

<211> 1251

<212> DNA

<213> B.fragilis

<400> 1676

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<210> 1677

<211> 1284

<212> DNA

<213> B.fragilis

<400> 1677

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<210> 1678

<211> 2514

<212> DNA

<213> B.fragilis

<400> 1678

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<210> 1679

<211> 312

<212> DNA

<213> B.fragilis

<400> 1679

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<210> 1680

<211> 843

<212> DNA

<213> B.fragilis

<400> 1680

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<210> 1681

<211> 5856

<212> DNA

<213> B.fragilis

<400> 1681

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<213> B.fragilis

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<223> Identity of nucleotide sequences at the above locations are unknown.

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<211> 1437

<212> DNA

<213> B.fragilis

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<210> 1684

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<212> DNA

<213> B.fragilis

<400> 1684

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<210> 1685

<211> 1128

<212> DNA

<213> B.fragilis

<400> 1685

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cagttcaaat	cgtgtaatat	agttgccgga	gaagtgcacat	atcgttattc	gtttaatcgg	1020
gatacatata	tacagccggc	aatacatctg	ataaagaatg	gaggagggt	tcatgaagtt	1080
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<210> 1686

<211> 1284

<212> DNA

<213> B.fragilis

<400> 1686

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atgggacgta	tcacggtgga	cggaaagccag	acacagttca	gctgcaaact	gaccgtcgat	180
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acgaaccgta	tgctcgacaa	gatgcgcgta	cgcataca	agcactatca	ggaaatcatg	300
gagcgtgaca	acttcgtcac	tgcggaagag	gtgaaaaacg	cctttctcgg	actggaacac	360
cgctaccaca	cgctgttgca	ggtgttcggg	caacacaacg	aggactatgc	caagcagggtg	420
gaggcaggca	tgaagccaa	aggcacgttt	gacaagtaca	agattgttta	caagcacctg	480
caagagtttc	tcaccatccg	ctaccatgtg	aaggacattg	ccctgaaaga	gcttacaccc	540
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<210> 1687

<211> 186

<212> DNA

<213> B.fragilis

<400> 1687

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gtgactgtgt	ctcctaccgt	ttatttcagg	aaatttctct	actggatcgg	actcaccggt	180
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<210> 1688

<211> 255

<212> DNA

<213> B.fragilis

<400> 1688

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tttctatcta	ttaagaaaac	gttccttact	aaaacttaca	agttgaaaat	caataaaatg	180
cctccttaca	agaacttaca	tcaaaagagt	tctctctgcg	agaagtcac	actctcctta	240
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<210> 1689

<211> 345

<212> DNA

<213> B.fragilis

<400> 1689

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tccgcactcg	gtacagatat	tcgtgccgct	cgcctctctg	attgcgtaat	gcttgaagca	300
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<210> 1690

<211> 201

<212> DNA

<213> B.fragilis

<400> 1690

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gaggcagata	agatagtttg	a				201

<210> 1691
 <211> 1599
 <212> DNA
 <213> B.fragilis

<400> 1691
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 cccgcgaaaag cggagaacgc gcagagtttc ctgcaattcg accgccacgg cgatgtgctg 180
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 gacggcagga agttcgtcac cacacttcaa gtgaacgtcg agcagcgagg cgtggagttc 1080
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<210> 1692
 <211> 2358
 <212> DNA
 <213> B.fragilis

<400> 1692
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 aatagcctct atgaatggca ggagatagaa gcattagaac ttggcaataa aaaaatagac 180
 gagctccgaa aagaaataaa caatatcaat attcaaatga taaaattttc tctattgggt 240
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<210> 1693

<211> 417

<212> DNA

<213> B. fragilis

<400> 1693

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<210> 1694

<211> 402

<212> DNA

<213> B. fragilis

<400> 1694

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tgccaatacg	gacattggac	ggaatacaag	gcaacggaca	agaccggact	tcgcagatac	360
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<210> 1695

<211> 525

<212> DNA

<213> B. fragilis

<400> 1695

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gacatggaca	tccagcaatc	ctatcccttc	acggtggaaa	tcatgcccgt	acccaacaag	180
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gacaactcct	acgagctgga	atttgacttc	aacaaccgta	acgtgaagga	tgacggggct	480
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<210> 1696

<211> 453

<212> DNA

<213> B.fragilis

<400> 1696

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aatctgacag	gaggagtcag	tggcagtgga	aacgtagcct	ataaaggcaa	cccgcgaata	420
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<210> 1697

<211> 1302

<212> DNA

<213> B.fragilis

<400> 1697

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aatagagaaa	gacatttttt	caacgataat	tatgtattag	ataatgctct	atggggtaca	180
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tctgttacta	aaattgtatg	ttggatttta	aatacagaaa	ataagctgtt	aaggggtatct	1260
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<210> 1698

<211> 1161

<212> DNA

<213> B.fragilis

<400> 1698

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<210> 1699

<211> 741

<212> DNA

<213> B.fragilis

<400> 1699

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<210> 1700

<211> 252

<212> DNA

<213> B.fragilis

<400> 1700

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ctgagaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
tttcacccgt	tatcgactca	acactgggtc	agagatgcag	cagtatcttc	ggatatcagt	240
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<210> 1701

<211> 1359

<212> DNA

<213> B.fragilis

<400> 1701

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<210> 1702

<211> 1302

<212> DNA

<213> B.fragilis

<400> 1702

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ggcggatttt	atatgggaga	tccttcgcgc	aatgtatata	gtgttgatct	gaaggaattt	1260
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<210> 1703

<211> 258

<212> DNA

<213> B.fragilis

<400> 1703

cacagagtta	aaacttgttc	tttggatgtg	aataagaagt	tctttaaatg	caaaaggctt	60
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<210> 1704

<211> 234

<212> DNA

<213> B.fragilis

<400> 1704

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<210> 1705

<211> 2826

<212> DNA

<213> B.fragilis

<400> 1705

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<210> 1706

<211> 441

<212> DNA

<213> B.fragilis

<400> 1706

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<210> 1707

<211> 285

<212> DNA

<213> B.fragilis

<400> 1707

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<210> 1708

<211> 942

<212> DNA

<213> B.fragilis

<400> 1708

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<210> 1709

<211> 597

<212> DNA

<213> B.fragilis

<400> 1709

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<210> 1710

<211> 810

<212> DNA

<213> B.fragilis

<400> 1710

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<210> 1711

<211> 243

<212> DNA

<213> B.fragilis

<400> 1711

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gctttaggaa	tggagaagaa	cgatggggct	aaagactatt	ggtgttgtgg	aatgagggat	180
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<210> 1712

<211> 900

<212> DNA

<213> B.fragilis

<400> 1712

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cgcaacatca	ggctgtacga	gcaggctcta	ctgcataaat	caacggcagt	acgttcggaa	180
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gaagccaaaa	cacagaataa	tgtacctgca	gaagatacga	ctcccgaatc	agaaatgtct	840
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<210> 1713

<211> 306

<212> DNA

<213> B.fragilis

<400> 1713

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ctggaaagggt	ggctcacggg	cgaggaagtc	tgccggcgagt	tgagaatcag	cccgcgcacg	180
ttgcagacgt	tgcgcgacaa	gcggcttatc	ggctactcgc	agataaaccg	caggttctat	240
tacaagccgg	aagaagtcag	aaggctgatt	ccgcttatcg	gcacgctcta	tcccggcggc	300
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<210> 1714

<211> 1914

<212> DNA

<213> B.fragilis

<400> 1714

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ctggaaacat	gggtgacaaa	gtccgttaaa	gaaggaaaaa	tttcggtaga	agaaggtaaa	1860
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<210> 1715

<211> 1467

<212> DNA

<213> B.fragilis

<400> 1715

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gatgggcttt	atgatgtgct	tggttatgga	tatgatatta	caaaggagta	tttgaccctt	180
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cttgtgacag	gtactcctag	tttcggagga	gatcaaatgt	attatggata	ttctgcattt	300
gactatctaa	aagatatgac	gaaagagact	aaagcttcgc	tccaagtaag	tgataccgca	360
aaacaagctg	catattcggg	atcaattgct	ggaggaacct	attttaaatc	agcgtattct	420
tattcatcta	aattattcatt	tgcaagtatt	gatgctgtaa	gaaagttgaa	gtatatcaga	480
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<210> 1716

<211> 1053

<212> DNA

<213> B.fragilis

<400> 1716

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gccgatgcgt	taatcatccg	tacacgcacc	cgttgtgac	gttcactgct	tgccggaagc	180
aaagtaaagt	tcatcgcaac	tgccacgac	ggattcgacc	acatcgatac	ggcttattgc	240
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tataaggagg	ggaaatataa	aacgtatcat	ttggcggaca	agcatttctt	ccattcgcgt	600
aaaaaaggag	cggtaatcat	gaacacttca	cgcggtgaag	tcatcgaaac	agaagcgctg	660
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ccggatatcg	accttgaact	gctggagaaa	gtaattatag	gtactcccca	catcgccgga	780
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ctgaaatctc	acccggggct	cttcgaacaa	cttcggggag	actatccttt	aagaagagag	1020
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<210> 1717

<211> 624

<212> DNA

<213> B.fragilis

<400> 1717

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ggggactgca	atatggaaaa	agcatacacg	gttttcgcca	cccaagtgat	tgaactgtgt	120
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gtggaatcaa	aggactgcta	ccgtttctac	atcgacatca	aacgccggaa	gaacgagagt	540
cgcacctatt	tccttgacaa	aatgcaggaa	aaactgaacg	agaagatgct	ccgtgacgaa	600
gagatggagc	gcacgagaag	atag				624

<210> 1718

<211> 792

<212> DNA

<213> B.fragilis

<400> 1718

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ggggttattc	agggaggaat	gataccgaag	cttgaaaatt	cttttgaggc	aattaatgca	720
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<210> 1719

<211> 1518

<212> DNA

<213> B.fragilis

<400> 1719

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<210> 1720

<211> 522

<212> DNA

<213> B.fragilis

<400> 1720

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<210> 1721

<211> 411

<212> DNA

<213> B.fragilis

<400> 1721

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<210> 1722

<211> 1800

<212> DNA

<213> B.fragilis

<400> 1722

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<210> 1723

<211> 1470

<212> DNA

<213> B.fragilis

<400> 1723

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<210> 1724
 <211> 1032
 <212> DNA
 <213> B.fragilis

<400> 1724
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 ccgatgtgtg actgtggagt cgttggttaag gatgaggggag taccggacgc atggatgact 660
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<210> 1725
 <211> 1977
 <212> DNA
 <213> B.fragilis

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<210> 1726

<211> 2112

<212> DNA

<213> B. fragilis

<400> 1726

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gatttgagg	cattggcgaa	aatcatggat	tttctgcgtg	ccgtgagtat	tatttttagtg	180
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<210> 1727

<211> 750

<212> DNA

<213> B. fragilis

<400> 1727

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<210> 1728

<211> 702

<212> DNA

<213> B.fragilis

<400> 1728

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gaaacattat	ttgattttgg	gaaaatttcg	tttaaagaat	cacaaaagtg	tatttttatg	660
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<210> 1729

<211> 1800

<212> DNA

<213> B.fragilis

<400> 1729

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<210> 1730

<211> 630

<212> DNA

<213> B.fragilis

<400> 1730

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<210> 1731

<211> 1839

<212> DNA

<213> B.fragilis

<400> 1731

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<210> 1732

<211> 408

<212> DNA

<213> B.fragilis

<400> 1732

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atztatgtac	aaatgatagc	ttttcttaga	tacttagggg	atatacagca	gcgcaaactc	180
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atactcccg	taaatgttcc	tgccaccgcg	ctccagtttc	cggatcagcg	tgcttttggg	300
tattttcccg	ttccccaaca	gacggtatgg	accgacattg	taggcgagcg	tggcaaggag	360
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<210> 1733

<211> 360

<212> DNA

<213> B.fragilis

<400> 1733

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<210> 1734

<211> 1425

<212> DNA

<213> B.fragilis

<400> 1734

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<210> 1735

<211> 354

<212> DNA

<213> B.fragilis

<400> 1735

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cgcaccttgc	aacgttaccg	cagcatcggc	gcgttgccgt	ataagacgct	cggcaaaaag	240
acctattaca	gcgaggagga	cgtgctgacg	tctctttccg	gacacgtaaa	ggacttcaaa	300
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<210> 1736

<211> 1230

<212> DNA

<213> B.fragilis

<400> 1736

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cttcaagaga	agattacagc	acgaatcgcg	cctaataaag	cagtattgat	ttttggtgct	180
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<210> 1737

<211> 891

<212> DNA

<213> B.fragilis

<400> 1737

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gcgccatacc	gcaatgagcg	cacgccctct	ttccgtgtga	acgtggcaaa	acagcttttg	180
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<210> 1738

<211> 534

<212> DNA

<213> B.fragilis

<400> 1738

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gaccgcctgc	ttgctggactg	caccatagtt	gaggatgcgg	caacacctac	ggaactgaaa	480
cgcaaccata	cgctgcgcac	gggcgggcagc	aaacccaaag	gaaggaggac	gtga	534

<210> 1739

<211> 801

<212> DNA

<213> B.fragilis

<400> 1739

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<210> 1740

<211> 207

<212> DNA

<213> B.fragilis

<400> 1740

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ggaaaccgat	ttcttccgcc	ggataaacga	agccggggac	tgcaatatgg	aaaaagcata	180
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<210> 1741

<211> 2424

<212> DNA

<213> B.fragilis

<400> 1741

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<210> 1742

<211> 225

<212> DNA

<213> B.fragilis

<400> 1742

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aaaagaaaac	ttaccaccaa	attcgaagaa	gaaccccaaa	aaatcatttc	gatcttccat	180
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<210> 1743

<211> 1962

<212> DNA

<213> B.fragilis

<400> 1743

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gaatttgcct	tacaactctg	tgatagatta	gaaactgaag	tagcgttcga	tgtacctgat	1920
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<210> 1744

<211> 543

<212> DNA

<213> B.fragilis

<400> 1744

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gaagcagagg	atgtttgttc	ggatacgatg	attagagtgt	ggaataaacg	tgaagagtgg	180
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agaagccaaa	aaaaagaagc	tcagaatgta	gaactcacac	ctgaaatgga	agaagaatcc	300
gaaatatccg	ggccttatga	tcaattgggtc	aataatgaac	ggatgtcgat	tatccatcgt	360
ctgattaacg	aacttcctga	gaagcaacgg	ctcattatgc	agttgagggg	tatagaagga	420
gagagctata	aagaaatagc	aaaaatcttg	aatctgacag	aggaacaggt	aaaagtgaat	480
cttttcagag	caagacaaaa	ggtaaaacaa	aggtatttag	agattgatga	atatggatta	540
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<210> 1745

<211> 300

<212> DNA

<213> B.fragilis

<400> 1745

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gtattggctg	tattctcgtg	tttcagagag	caaccttata	agttggattc	tttgtcgtta	180
cagaatgttg	aagcattggc	tgaaggtag	gaatatacac	atatttcttg	tatagggtga	240
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<210> 1746

<211> 597

<212> DNA

<213> B.fragilis

<400> 1746

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ctgtgtacgg	ggcaggcgca	cgcccagcga	tgccctgccga	agatgcaggg	catcgagggtc	120
agggcgaaca	tggcggacgg	cttcaatccc	ggcggcaacg	acggcgggta	cagtttcggg	180
gcggctcttt	ccacctacac	gaaaaagggg	aacaaatgga	tgtttggcgg	cgaataacctg	240
ttgaagaaca	acccttacaa	ggacgggaag	ataccctggg	cgaggttcac	ggcggagggc	300
ggatactact	tcaagatact	ctccgatgcc	cgtaaaatcg	tattcgtcta	tgcagggtgct	360
tcggctcttg	ccggatatga	atcgggtgaac	tggggcgaaa	aggtactgca	tgacgggtcc	420
atgctccatg	accgggatgc	cttcatctac	ggcggtagcg	tgacgctcga	tgtggagttt	480
tacgtggctg	accgtatcgc	cctgcttgcc	aatctccggg	agcgttgcc	gtgggggtggc	540
gacacgagga	agtttcatat	gcagtggggc	gtgggcatca	agtttatcat	taactaa	597

<210> 1747

<211> 819

<212> DNA

<213> B.fragilis

<400> 1747

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attactccgg	taaaagattc	tatcgagttg	acgttgcaaa	cggtcgaagc	tattttaaaa	180
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atcacttctc	atccttctcc	caattatttg	ctggtgctcc	agatggcaca	agagaaggcc	360
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ttacagtctc	tttttgatgg	tgcgcaggct	cgcaaagatt	gcggtatagc	tgccgcgggtg	480
acagtatag	aacatgaggc	gatcaattat	ccctatttat	atgcaaaagg	caaagagaat	540
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ttacgtgctt	ttgatttcca	ttctctgaac	cgggagaaga	actggtttga	tgtgaccatt	660
tctcatcagg	ctcttgaaaa	gggttttggt	aactatctgt	ttactacctt	gactgtttgg	720
caccgtccgc	atagtagccg	tccgtggaaa	cagttgaaat	ataactaatcc	gcttaaatat	780
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<210> 1748

<211> 351

<212> DNA

<213> B.fragilis

<400> 1748

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aaggactatg	acgggctttt	catccgtgaa	cccgaagtaa	aggcacgcga	ggggaagatg	180
gcatacgtgc	gcccgagta	ccacgaccgc	atcatgcgca	tcacccgcgt	tatcgggcac	240
gacaggcttt	cgctgtccgc	ctacatcgac	catgtgctta	cgcaccactt	caaccagtgc	300
gaagaggcga	taaagagcct	ttacgccagg	aattacgatg	cagtatttcta	a	351

<210> 1749

<211> 1884
 <212> DNA
 <213> B.fragilis

<400> 1749

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agtgaaaatt	tgaattacaa	gtttgaacgc	ttgtaccgta	tctttttcaa	tgaggaaatg	180
tattacgttg	cctaccaacg	catatatgcg	aaaccgggca	atatgacagc	aggtgcagat	240
gggaaaacca	ttgaccaa	gagcctgaac	cgaattgaac	aactgataac	atcgttgaaa	300
gatgagagtt	atcagcccca	accctcaaaa	cggatgtata	tcccaaagaa	aaatgggaaa	360
atgcgtccat	taggtgtacc	agctttta	gataaattat	tgcaggaagt	ggtcagaatg	420
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agaagctgcc	acactgcctt	gtctgatatt	cagaagacat	tttcgggctt	gaaatggttc	540
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aaatacggag	tactaagacg	tgtcttcaat	aagaggatac	aattggcact	tggaaaggat	1260
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gtcgataagt	tagtgatgca	ccatgtgaga	aaattaaaaa	atcttcaagg	gaaaactacc	1800
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aaaaaactca	gtaacaatga	atag				1884

<210> 1750
 <211> 483
 <212> DNA
 <213> B.fragilis

<400> 1750

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aacaccgaag	gcattgacga	ggaactgttg	atagcctcca	tcggcagacg	caagcaggac	120
gggaccctgt	accgcgcaca	ggagccgccc	gtacctgccc	ccgaagaaga	gagcgtccccg	180
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acacgccagt	gcgtctatat	cagccgcgac	gtacacagca	agattcttaa	aatcgtgaac	360
gacatcgccg	gacgggaaat	ctcggtaggc	ggctacgtgg	acaccgtgct	gcgccaacat	420
ctggaacagc	acaaggagaa	aataaacgaa	ctgtacaaga	accaacgtga	agacttaata	480
tga						483

<210> 1751
 <211> 1320
 <212> DNA
 <213> B.fragilis

<400> 1751

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gtgtccgtcg	gtgagcaggt	ctttgatctc	gtcatcggtg	agggtacggt	ttgccttcag	180
gcggaacacg	ggcagcccgc	actccgcgtt	gtcgcagcgg	acgaccttgc	cgtaaaactg	240
catacttccc	gttcgcgact	tgggacactt	gcagccggaa	tccctgcggg	cgaacagctt	300
gtcgcacgag	agcagttcgg	aggtaatttc	ctgcgtgtac	gcctctatct	ccttgcgga	360
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catggcaacg	tcggcgatgc	gcatcgctct	cacgaccgag	tagagggcaa	gccccctttc	480
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cagcggttta	ggcttggtct	tgccctctgt	gatggaggca	gctttcagtg	tcagcgtgtc	720
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ggcgttggtc	tccttttgga	gcgtggtcag	gtcgtacaga	agcggagtg	cctccgtctt	1260
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<210> 1752

<211> 540

<212> DNA

<213> B.fragilis

<400> 1752

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gattatggca	acacgaatga	ccatcaacgg	agtaagtacc	tgcacgaaag	cagggacaga	120
gaaatacgag	aagttccaaa	cgggtatcgg	cagacgcaag	cggacacttg	tgcaatacga	180
ctaccgccac	acggacgggg	aattattctc	ttgtgtgaaa	cccacgttgg	acgagtgccg	240
aaccgcacgg	gacaagtggc	tgacggcaaa	aagaggaaa	gaggacaagc	gatgaacgaa	300
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tttgacgatg	ccgaagcgtg	gggagttgaa	acccttaaa	gatgggtaga	ggactatgag	420
agcagtcggt	ttaccgccat	tgacaccac	acggcagtc	taacgagcga	gtacaatatg	480
gagtgtgtga	aaacatggtt	ggaaaggaac	acccccatag	ccgagaaaa	agaattttga	540

<210> 1753

<211> 459

<212> DNA

<213> B.fragilis

<400> 1753

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aaggaaacacc	cccatagccg	agaaaacaga	atgttgaa	ttcgggcggt	gtccgcaccg	120
cccgaacata	gcacccaaag	aagaatgaat	atgatagcaa	agacaatttt	ggagcagata	180
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gcaggggcag	acctctacaa	tatgcgcttc	taccgcagga	cgttcagcaa	aaagacattc	360
gagtgcaga	cgaaagacat	cgaaacgcac	gagaggatat	attgtgat	gctggaagaa	420
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<210> 1754

<211> 1293

<212> DNA

<213> B.fragilis

<400> 1754

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gcaatcaaga	ggcgggacgg	cacgaatatc	tgtaccgagt	gcggacattc	gtggaagagc	180
gaccacgacc	ttgcgggacac	cattttgcgga	tgtacctgcc	cccattgcgg	tatgcagttg	240
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accagcaagc	agtaccaagt	gatacgcttc	ttcttcgtca	agtcccgata	caaggcaggg	360
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acaacgaccg	ttgcccgcact	gcgtggtatg	tcaatgttgt	attatgacca	atggtctgaa	480
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gtatgcaatt	ccaataccga	gtaccacgac	cgcacatcc	ggcttgtgga	ggacaatgcc	1260
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<210> 1755

<211> 282

<212> DNA

<213> B.fragilis

<400> 1755

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gacgataaaa	tccccacgat	gttccttgaa	tttatgaacc	tcctcacttt	ttgtcagagt	120
gaggagcagt	taagggcggg	tgtaaaagac	ttttccgaga	agcacgaact	tgacaagttc	180
ttccttttacg	gcttcggctc	acaccatttc	tacctgcacc	aacgctatac	gagtaacccc	240
gaaatggtga	tgcagaacag	agttttgtca	gtacattttc	aa		282

<210> 1756

<211> 699

<212> DNA

<213> B.fragilis

<400> 1756

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ggactgagaa	tgttcctgtc	aaatacgttc	gaccttgctc	tttcggacat	tgtgctcccc	180
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gatgattaca	tggtgaaacc	cttcgacttc	agggagctgt	atgcccgat	ccgagttctt	360
ctgaaacgaa	aacttgcagt	agtgcactgat	gtggaggaag	agttaaatta	tgcagactta	420
tccgtaaacc	tggtggacaa	gagcgtaaag	agggcgggac	gggacattaa	gctctctccc	480
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<210> 1757

<211> 1104

<212> DNA

<213> B.fragilis

<400> 1757

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cgttt	ttatg	agttc	aacgg	ttctac	tga	tattt	ggagg	atgcc	cgtgc	gttag	ctgct	180
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gattac	ttca	ttgat	gaata	tatgt	cgggt	catact	cgg	tgccct	gtac	tcttt	gcaat	300
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attgc	agaag	gacaag	ctgc	cgctt	ttttac	aaagac	gggt	tgtt	gttggg	aggag	ggatc	1080
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<210> 1758

<211> 573

<212> DNA

<213> B.fragilis

<400> 1758

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atcga	tttgg	actgg	tatat	tgaag	agcgt	tttca	caaaa	cggc	cgaga	gttgt	ttttct	180
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tttgag	gatg	tgggt	gatctc	tacag	gagga	gggg	cgctt	gcttt	tttcga	taacat	ggag	300
tatat	gaatc	gggtg	ggggac	taccg	tcttt	ctggat	gtag	acccc	aaagg	attgt	tttag	360
cgggt	gcggg	ttgcc	aaaca	acagc	gccct	atatt	gcagg	ggaag	aaaaga	tgacg	aaacta	420
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atctat	tgtg	cagaca	aaact	ggaag	accgt	agtcag	attg	aaacat	ccgt	gcaaca	aaactg	540
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<210> 1759

<211> 1278

<212> DNA

<213> B.fragilis

<400> 1759

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<210> 1760

<211> 270

<212> DNA

<213> B.fragilis

<400> 1760

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tctaaagaac	ctgtcaaacc	tggggaggtc	ttaagaataa	ctgtgatcta	taaagcggat	180
catccggaac	actttaggaa	aactattaca	atatattgta	atgttcctac	ttctcctctg	240
caattgaaaa	taactggaaa	tgctgaataa				270

<210> 1761

<211> 936

<212> DNA

<213> B.fragilis

<400> 1761

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<210> 1762

<211> 192

<212> DNA

<213> B.fragilis

<400> 1762

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aatcctgctg	accttggtta	tgtcttgta	gtcaccattt	gcaaaacat	atgtgaccct	180
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<210> 1763

<211> 489

<212> DNA

<213> B.fragilis

<400> 1763

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<210> 1764

<211> 1371

<212> DNA

<213> B.fragilis

<400> 1764

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<210> 1765

<211> 2664

<212> DNA

<213> B.fragilis

<400> 1765

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<210> 1766

<211> 189

<212> DNA

<213> B.fragilis

<400> 1766

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<210> 1767

<211> 195

<212> DNA

<213> B.fragilis

<400> 1767

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tcattttaaag	aaataaattg	tattataatc	gagagaaatg	catatctttg	caacgagaga	180
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<210> 1768

<211> 1317
 <212> DNA
 <213> B.fragilis

<400> 1768

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<210> 1769
 <211> 381
 <212> DNA
 <213> B.fragilis

<400> 1769

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<210> 1770
 <211> 249
 <212> DNA
 <213> B.fragilis

<400> 1770

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<210> 1771
 <211> 1056
 <212> DNA
 <213> B.fragilis

<400> 1771

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<210> 1772

<211> 1176

<212> DNA

<213> B.fragilis

<400> 1772

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<210> 1773

<211> 624

<212> DNA

<213> B.fragilis

<400> 1773

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gctgcggagt	ccatcttgga	tttgctgcgt	aaatatcaga	tagactttat	tgtgctggcc	300
ggttttctgt	tacgtattcc	ggatgcactt	ttgcatgctt	atcctgataa	aattataaat	360

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cattacgatg	agggaaagtac	tgttttttcag	gcaaaatgcc	cggtacttcc	cggagatacc	540
cctgcggatg	tggctaaaaa	agttcatgca	ttggaatatg	aatggttccc	caagatcata	600
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<210> 1774

<211> 243

<212> DNA

<213> B.fragilis

<400> 1774

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gatgtcctcg	tgcttgaaaa	cgagatacgg	ctggttgccg	aagcccatct	tctccagata	180
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<210> 1775

<211> 336

<212> DNA

<213> B.fragilis

<400> 1775

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<210> 1776

<211> 206

<212> DNA

<213> B.fragilis

<400> 1776

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<210> 1777

<211> 654

<212> DNA

<213> B.fragilis

<400> 1777

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<210> 1778
 <211> 1797
 <212> DNA
 <213> B.fragilis

<400> 1778

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<210> 1779
 <211> 291
 <212> DNA
 <213> B.fragilis

<400> 1779

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cggcaaatag	aattttttta	atcaaaaatca	ctacaaatct	atgacaattt	acttaaaactt	180
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<210> 1780
 <211> 414
 <212> DNA
 <213> B.fragilis

<400> 1780

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cgtgtgactt	taaatgtcaa	caacagtagt	cttcagaaaag	tgctggatga	aatagaaaag	240
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<210> 1781

<211> 1221

<212> DNA

<213> B.fragilis

<400> 1781

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<210> 1782

<211> 282

<212> DNA

<213> B.fragilis

<400> 1782

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gtcagatata	gtatgctact	gccaaatgta	cgtaaagata	aggagatctg	caacgaaact	240
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<210> 1783

<211> 639

<212> DNA

<213> B.fragilis

<400> 1783

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<210> 1784

<211> 200

<212> DNA

<213> B.fragilis

<400> 1784

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<210> 1785

<211> 390

<212> DNA

<213> B.fragilis

<400> 1785

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<210> 1786

<211> 234

<212> DNA

<213> B.fragilis

<400> 1786

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gaggaatacg	atgttgactt	tgaccatcag	ttccttgaaa	cggagaagta	tgatggcaaa	180
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<210> 1787

<211> 348

<212> DNA

<213> B.fragilis

<400> 1787

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<210> 1788

<211> 252

<212> DNA

<213> B.fragilis

<400> 1788

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<210> 1789

<211> 2178

<212> DNA

<213> B.fragilis

<400> 1789

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<210> 1790

<211> 342

<212> DNA

<213> B.fragilis

<400> 1790

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gacaagaatg	tctatatcga	gaacagcgaa	ggtaaccgca	ttgtgcgttt	tcattcggcc	180

gacacccata	agaaaatctt	cgctcttctg	gaatcccaga	acaatccggt	aaaacgcttc	240
aggggggaaac	gggggttccc	gcttcaaagg	aaaatctcag	tgaaaaaaag	aaaactttgc	300
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<210> 1791

<211> 1887

<212> DNA

<213> B.fragilis

<400> 1791

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<210> 1792

<211> 1068

<212> DNA

<213> B.fragilis

<400> 1792

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ctggatggag	acgtgggtgaa	acaggatttt	acccctatgc	gctccgaacc	ggttttgggt	360
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<210> 1793

<211> 1038

<212> DNA

<213> B.fragilis

<400> 1793

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gggacccaaa	attacaatcc	gggtgggaatg	cggcgttcgg	gcgatactct	tttcattgcc	240
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gccggaggag	tggggctggg	aactcccgga	cgcctctttt	tccataatga	tacattctat	960
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<210> 1794

<211> 714

<212> DNA

<213> B.fragilis

<400> 1794

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gccggagagt	ctgataccta	tttccgcca	cgtccctaca	aaagccgtat	aggagcacgc	480
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gtcactcccc	atcggatcga	gttctggcaa	ggtagggcaa	accggcttca	cgatcgcttt	660
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<210> 1795

<211> 1221

<212> DNA

<213> B.fragilis

<400> 1795

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tcttgtaate	ggactccctc	tgtggaagag	cccgatgttc	tgaaagtaga	gttgaaggaa	180
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<210> 1796

<211> 648

<212> DNA

<213> B. fragilis

<400> 1796

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tgtaggataa	ttcaatcaga	tataggagca	tattcttatg	ttggttatgg	ctctattctc	180
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<210> 1797

<211> 738

<212> DNA

<213> B. fragilis

<400> 1797

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<210> 1798
 <211> 1092
 <212> DNA
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<210> 1799
 <211> 549
 <212> DNA
 <213> B.fragilis

<400> 1799
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 gaagagttgc tcgatgctgc tgcccgatac cgctcgctggg gggaaaacag gcagtatcct 480
 cgtacggcat ggaccatcga cgcattgttt gacgagccc tttgcggaag cggataccgt 540
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<210> 1800
 <211> 183
 <212> DNA
 <213> B.fragilis

<400> 1800
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 taa 183

<210> 1801
 <211> 474
 <212> DNA
 <213> B.fragilis

<400> 1801

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aagatatcca	tgtcaaaaat	gacttttttcg	caccagatga	tccgcctgat	ctttgtagaa	420
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<210> 1802

<211> 2886

<212> DNA

<213> B. fragilis

<400> 1802

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ccggtggaaa	tcaaccgtga	atacggacgc	atccgatttg	acgcaagcgg	aaatgccgga	180
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<210> 1803

<211> 597

<212> DNA

<213> B.fragilis

<400> 1803

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gagatagccg	atatgctggg	tatcaaagag	cattcatcca	cttcgcagtt	gcaccggggc	540
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<210> 1804

<211> 588

<212> DNA

<213> B.fragilis

<400> 1804

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<210> 1805

<211> 486

<212> DNA

<213> B.fragilis

<400> 1805

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<210> 1806

<211> 183
 <212> DNA
 <213> B.fragilis

<400> 1806
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<210> 1807
 <211> 339
 <212> DNA
 <213> B.fragilis

<400> 1807
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 ggtttaccca aaaccgggtc ggagcgcata ggggtaaaat cctgtttcac caggtctcca 180
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<210> 1808
 <211> 519
 <212> DNA
 <213> B.fragilis

<400> 1808
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<210> 1809
 <211> 1305
 <212> DNA
 <213> B.fragilis

<400> 1809
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 ggagatattg ttgtttatga gtcaactgta taccctggag taacagaaga agagtgtatt 420
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<210> 1810

<211> 1029

<212> DNA

<213> B.fragilis

<400> 1810

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<210> 1811

<211> 315

<212> DNA

<213> B.fragilis

<400> 1811

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<210> 1812

<211> 993

<212> DNA

<213> B.fragilis

<400> 1812

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<210> 1813

<211> 663

<212> DNA

<213> B.fragilis

<400> 1813

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<210> 1814

<211> 1161

<212> DNA

<213> B.fragilis

<400> 1814

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<211> 1056
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 <213> B.fragilis

<400> 1815

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<210> 1816
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 <212> DNA
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<400> 1816

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<210> 1817
 <211> 1329
 <212> DNA
 <213> B.fragilis

<400> 1817

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cgatgttggg	tatatgacaa	ttttgttttt	gatataattaa	ggtataagcc	taagatgctt	180
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<210> 1818

<211> 603

<212> DNA

<213> B. fragilis

<400> 1818

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<210> 1819

<211> 1296

<212> DNA

<213> B. fragilis

<400> 1819

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aaggatgtgg	atttctatcc	ggcactgac	cccaacaaag	gttctgccga	ccgtgcccgc	360
aaccagttcc	agatggatat	cagcacttcc	accctcttcc	tgaagctggg	gggacatacc	420
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<210> 1820

<211> 1032

<212> DNA

<213> B.fragilis

<400> 1820

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<210> 1821

<211> 846

<212> DNA

<213> B.fragilis

<400> 1821

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aatgatggat	ttgaggttgg	agagtttgaa	aattttattat	gtaattttaa	tgttgtagag	180
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gcgggttata	aatatttaaat	tctatgtgat	gtagatgact	ttttttcaag	aaaaaggggtg	300
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aacattgatt	tacattttat	aaaagaaaaag	aatctatttag	gatttttccaa	tacagctata	480
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<210> 1822

<211> 717

<212> DNA
<213> B.fragilis

<400> 1822

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gatgatgaaa	ctatttctta	tattgaaaag	actcgatggg	ggacgtgggc	tatagaggag	660
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<210> 1823

<211> 1944

<212> DNA

<213> B.fragilis

<400> 1823

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<210> 1824

<211> 459

<212> DNA

<213> B.fragilis

<400> 1824

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<210> 1825

<211> 504

<212> DNA

<213> B.fragilis

<400> 1825

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<210> 1826

<211> 504

<212> DNA

<213> B.fragilis

<400> 1826

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gagactaatc	caattgagga	gtggcagcat	atagaacagc	taaagggtag	tgctgaagga	420
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<210> 1827

<211> 1302

<212> DNA

<213> B.fragilis

<400> 1827

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<210> 1828

<211> 1446

<212> DNA

<213> B.fragilis

<400> 1828

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ttattcttat	tgttgaatcc	tttgtttaat	atggatatgc	atatattggt	gaagttgttg	1380
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<210> 1829

<211> 741

<212> DNA

<213> B.fragilis

<400> 1829

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ttttgttgca	aacctaaaaa	aaacatcatg	aaaaagattt	tatttattct	atttacagtt	180
cagttttattc	tgatccctcg	gataacagga	agttatgggtg	caaattctat	cggaaataat	240
catggacatt	cggtaactaa	tcaaggaaag	aaaaccatca	agaaagacat	ctttggagat	300
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actgtcattg	aggacaatcg	cggtaatagg	aaaagcatca	aaaaagatat	ctttggaaat	600
actgtcattg	aaaataataa	aggttataaa	aagaccatta	agacagatat	attcggtaat	660
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<210> 1830
 <211> 711
 <212> DNA
 <213> B.fragilis

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aaagaagaaa	atgtaattat	tgatagattt	attgttttac	aaccaacttc	tcctttgaga		360
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gtgagttaca	caaaagaaga	acatccaatt	tattggcata	aaaatataga	caatgataat		480
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tatcctaattg	gagccattta	tatcttttaa	agtagtttaa	ttagaaataa	gaaatattat		600
acagacaatt	cttttgctta	tgcatgcct	agagatagat	ccgtagatat	tgattttttg		660
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<210> 1831
 <211> 189
 <212> DNA
 <213> B.fragilis

<400> 1831							
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<210> 1832
 <211> 819
 <212> DNA
 <213> B.fragilis

<400> 1832							
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gaagtgtttg	gtacgctcta	tgtaatcg	gttgcagtg	atataatgct	gctctacagt		300
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aataagaaaa	aatattgtt	tttagcatta	aatacttacc	tttgcgatc	gataataactt		420
gtgattatga	aaaaacgggt	acttttatgg	atggccggac	tcgtattcgc	tgtaacttcg		480
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gtagacaggc	aggcagctga	aggaacactt	gccgcctttt	tcagtagcaa	taaggctcagt		660
ggttttaattg	taaaccatga	aggtaagcgg	gatgaatcga	gttttattat	cggtaacctg		720
accactgcca	acggcaattt	ccggataaac	tgcttcttcc	gcagagtaca	gaacaaatat		780
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<210> 1833
 <211> 519
 <212> DNA
 <213> B.fragilis

<400> 1833

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caggattgtc	tgTTgaaggc	attggacaac	aaagagaaat	ttgtgcatac	ccagaatttc	180
aagggatgga	tgtaacacat	catgcgcaat	atctttatca	ataattaccg	taagtattg	240
cgcgaaagtag	acatgaccga	ctctacttat	aatctctatg	cgcaaaccat	gacggaaggc	300
gaggagggga	accggtttga	gacgatctac	gacctgaagg	agctctacaa	agtgatcaat	360
gccgttcccc	aagacctgaa	gaagcctttt	atgatgttcg	tgcccggtt	caagtatcgt	420
gagatagccg	agaagatgga	tttaccggta	gggactatca	agagccgtct	gttcctgatc	480
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<210> 1834
 <211> 1059
 <212> DNA
 <213> B.fragilis

<400> 1834

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gaagaacctt	cggataaggg	cagtacttct	ccccaaagac	cggtttacac	cacctttaca	180
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<210> 1835
 <211> 852
 <212> DNA
 <213> B.fragilis

<400> 1835

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<210> 1836
 <211> 645
 <212> DNA
 <213> B.fragilis

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tccatcattt	ccggttggtat catcggcgcg ggttcggtag tacgtaagga tattttggaa 600
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<210> 1837
 <211> 207
 <212> DNA
 <213> B.fragilis

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acctatataa	agggaactca cggttccgga gctgccaaaga tgaaagctga gatccggaga 180
aagagggcga	acagacataa acggtaa 207

<210> 1838
 <211> 1332
 <212> DNA
 <213> B.fragilis

<400> 1838	
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aatattgagt	tggaaaccgac ttttgctaac ttacaaaaat tacgtcatag agaaattttt 180
ttgaatggat	tagaggataa aattgtagaa tttctagatc cttcactaca aaattacaat 240
gatagttggg	ataaaataga tttgatgtta tcgaaaattt tatcaaataga ttttagattc 300
aaattttgtg	attctttttag tgggtggatgg gtttataact ggttttgttt ggatcatggt 360
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atgtctcatt	ataaggaggc acatcgagca ggtaaatcat atgaacactc agaaacattg 540
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tgctctaatt	ttgctgtaga gaatgaaaat aaggaacaat atagggatca aagaaatgga 720
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<210> 1839

<211> 936

<212> DNA

<213> B.fragilis

<400> 1839

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<210> 1840

<211> 735

<212> DNA

<213> B.fragilis

<400> 1840

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<210> 1841

<211> 597

<212> DNA

<213> B.fragilis

<400> 1841

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<210> 1842

<211> 1119

<212> DNA

<213> B.fragilis

<400> 1842

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<210> 1843

<211> 753

<212> DNA

<213> B.fragilis

<400> 1843

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attatagatg	aacgtactct	tttcagactt	catcaatcta	tttccacagg	tttggtttct	360
aatgaggaat	caggcttttt	aaggacacgt	gcagttagga	tcagcggtag	tgattatgct	420
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gtttatacta	atccattgga	aaaggcagtt	ttcttacatt	gtaaatattgc	acggctgcaa	540
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gctgatatta	ttcctgtata	ttcagcaaaa	gatgctgata	ttttgaatta	caggaaaggg	660
ttgattcgat	tttatgaaac	gggggattac	actaagtatt	ctgactactt	tctaaatagg	720
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<210> 1844

<211> 1827

<212> DNA

<213> B.fragilis

<400> 1844

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aacgtatata	aatatacttt	ctccgatttt	gataagggcac	agcagggttat	ggaacaattg	180
agaaagcgga	aatctctttc	catgttccgg	atggatgtgg	tggagggtga	tttatatttc	240
aatgtcggcc	aatattataa	ggcgttgaag	ttctataagc	gtgctttgga	cagtgcactcg	300
gtgcgcaata	atgataagaa	ctatatggaa	cagggtgcac	gcatgatctc	ttgttacgac	360
tgtttgcata	atgaaaataa	aaaatcgctg	tatgtctatt	tactttttaa	aagggcagag	420
cagtgcgggg	ataaagccat	gcagtcctgt	gctttgttca	atatgggtaa	aatgctgtat	480
tatcagggtg	ataaggagaa	gggatatgaa	tatctggaac	aggcgattga	aatgatgtca	540
aagacggact	atcgggtata	atacgataat	ctgcgttatg	attacaacac	tttactgata	600
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ttttcgggaa	agtatggagt	gactccgaca	gattttcagg	tgggggtaca	acataattaat	1800
aataagaata	ttactgagga	taagtga				1827

<210> 1845

<211> 786

<212> DNA

<213> B.fragilis

<400> 1845

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ataataattg	atgggaaatc	taatgattca	acactaggaa	ttgtgaaaga	atatatacct	180
ctattttagt	ggcgtttgaa	gtatataagc	gagaaagatt	ctggtatcta	tgatgccatg	240
aataagggga	taaaattggc	tagtggggat	ataattggta	ttataaattc	agatgatttt	300
tataaaagca	ataatgttat	agcaagtgtt	gctaattgctt	ttaatgacaa	tagtattgag	360
gtttgtttttg	gtaatattca	atttgtcaat	cctaataaca	agacacggat	tgttcgaaaa	420
tattctggta	aaggattcag	accttggatg	tttcgatggg	gaattatgcc	tcctcatcct	480
tcctttttta	cacggaagtc	atggttatgag	aagtatggaa	tgtataattc	gacttttaat	540
atttcagggtg	attatgattt	gatggttcgt	tttcttttag	tgaagaaact	taagtataaa	600
tatatggatt	tggaatggg	gataatgaga	ctaggagggtg	caagtaccaa	atctataaga	660
tcattgctga	tttaataata	ttataatgtt	ataagggcat	gtagggaaaa	tggaagtatat	720
actaatat	ttatggtttc	tttgcgttac	ataaagaaaa	tatcagaact	gattttttaa	780
gttttag						786

<210> 1846

<211> 1470

<212> DNA

<213> B.fragilis

<400> 1846

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tcacaagatg	tgaagcaggc	tacttttgtt	cctccatttg	actttacact	gactctgagc	120

ggcaacttcg	gagaaatccg	ggctaaccat	tttcatggag	ggcttgattt	caagactcag	180
ggtgtcattg	gcaaaccggt	acgtgcgctc	gccgacggat	atatttccc	tattcgcgtc	240
accaatgggt	cgggacatgt	actcgatgtg	gtgtataaca	acggttatac	gacaatcaac	300
cggcacttga	gcggtttcat	gcccgatatt	gcccggagag	tgagaaaact	gcaatatgaa	360
aaagaagatt	gggaagtcca	gattgttccc	gagccgggtg	aatatccggt	gaaggccggg	420
cagcaaatag	cctggagtgg	taataccggt	tattcattcg	gtccgcattc	gcattctggat	480
gtgatggaga	ccgctaccgg	tgaatcgatt	gatccgatgc	cctttttcaa	gtcgaaaata	540
aaagataaca	ccgctccccg	ggcagaagga	atcatgctgt	ttccacagcc	gggaagtggg	600
gtagtgggag	ggagcccggg	acggcagagc	ttcccataaa	acacagcgcg	tcccatcgag	660
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gacacagtgc	cccccgaaat	taccgccgga	ggtaagaata	cctggggccg	taatgggaag	1440
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<210> 1847

<211> 849

<212> DNA

<213> B. fragilis

<400> 1847

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ggtgatggcg	accacacaac	actttctctg	attcccgcga	ctgcaatggg	aaaatcgaaa	120
cttttaatac	aagaagcagg	cgtgtttggc	ggcatcgaaa	ttgccaaaga	aatattccac	180
cgttttcgac	cgacgatgaa	agtcgaggta	tttattaacg	atggtgctga	agtgaaccgc	240
ggtgatgtgg	caatgattgt	ggaaggtaag	attcagtcct	tgctccagac	agaacgtctg	300
atgctgaacg	tgatgcagcg	catgagcggg	attgctacta	tgacacgcaa	atcgtgaag	360
cagtttgaag	gcacgaaaac	acgtgtgctg	gataccgcga	agactactcc	cggactccgt	420
atgcttgaaa	aagcggcggt	aaagattggc	ggcggcgctg	atcaccgtat	cggacttttc	480
gatatgatct	tcctgaaaga	caatcatgtg	gactttgcgg	gtggcattga	caaagctatc	540
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cgcaacttcg	atgaactccg	gcaagtattg	agcatcggcg	gagtagaccg	catcatgctc	660
gataacttta	ctcccgaaaa	tacaaagaag	gctgttgaga	tgatcggcgg	aaagtatgaa	720
accgaatcgt	cgggcggcat	cacgttcgat	acgcttcgcg	actatgccga	gtgtggtgta	780
gactttatct	cagttgggtg	ccttaccat	tcggtgaaag	gactcgatat	gagtttcaag	840
gcatgctga						849

<210> 1848

<211> 693

<212> DNA

<213> B. fragilis

<400> 1848

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aatgtttgcc	tgattgcagc	caatcttctt	gaaaccaaag	ttattcagggt	aggcagtatc	120
actgttactg	ccgattattt	ggtatttccc	atctcttaca	ttatcaacga	ctgtatagcc	180
gaagtatggg	ggttcaaaaa	agcccggttg	attatctgga	gtggctttgc	catgaacttc	240
ttttagtag	ccctcggaact	gatcgccgtg	gcattgccgg	cggccctttt	ctgggaaggc	300
gaacagcatt	ttgattttgt	attcggcatt	gcccccgta	tcgtagtagc	cagtctgctg	360
gcttttctgg	tcggttcggt	cctcaatgcc	tacgtcatga	gtaaaatgaa	agtggccagt	420

ggcggacgta	acttttccgc	ccgtgccatt	tggtcgacgg	tggtgggaga	aactgccgac	480
tcactgattt	tcttcccat	agcattcgga	gggctgattg	cctggccgga	actgctggtg	540
atgatgggta	ctcaaactcg	actgaagtct	ctctacgaag	tgattattct	tccgattacc	600
atccgtgtcg	tgaaaaccgt	taagcgaatt	gacggaagcg	atgtctacga	tacggacatc	660
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<210> 1849

<211> 399

<212> DNA

<213> B.fragilis

<400> 1849

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cggaaagagg	cagccgacgg	ctcttttata	ctggtatata	tcacagataa	caccaccggt	180
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gaaatggact	gcgtatgctt	tgagaatact	tccatggggc	tctatttcat	caatgatccg	360
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<210> 1850

<211> 186

<212> DNA

<213> B.fragilis

<400> 1850

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gtgcctcctt	ataatgagac	attggatgga	aatgccactg	aatatcatct	ttatatattgc	120
catatttatc	caataattca	atgtaacgat	catgtatatt	atgatatccc	atatcgcgtc	180
ttctag						186

<210> 1851

<211> 279

<212> DNA

<213> B.fragilis

<400> 1851

gcaacttgct	tcatcctctt	ccttgaggat	actcttaggc	aattgttggc	tagaagccgg	60
tatctactgt	tcaaggcacc	gggcaagtgg	acggacagcc	aaaaacggag	ggctggaatt	120
ctgttcaagc	aattcccggg	tataaaggcc	gtgtgttatt	atgcgttaag	atggggaaag	180
atttttactg	attatataga	caaggatgtg	gcgtgtgcca	aaaacttaga	gggtgggtgtt	240
agaatagaa	ctttttataat	ggaagtgtgc	tgtatctaa			279

<210> 1852

<211> 444

<212> DNA

<213> B.fragilis

<400> 1852

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cttcaaataa	gaggccatta	ttatgcaaac	aatagaaatg	attgttttca	acccatcgga	120
cagcttagtc	ccatttcggt	tagtgccgta	aaaggaaatc	agttattgat	tacattgaat	180
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tgtaacgaaa	gcgggactga	aaatcggaat	tgtaatatcg	gtgaattttc	ggaaaccgta	420
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<210> 1853

<211> 258
 <212> DNA
 <213> B.fragilis

<400> 1853
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 ataagcttac attatgaaga gcagcatatt acagccgtat gggcttactt gacagtaaaa 180
 tttgaagagc attggaagcc tgttgatgta gaggtcgagt ttagatgcaa gttcaaggag 240
 cgaaagggtg atgggtag 258

<210> 1854
 <211> 1239
 <212> DNA
 <213> B.fragilis

<400> 1854
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 cttcgtcagg aggttgaagg taagagttta ttggtgattg gtggtgcggg ttccatcggg 180
 tcttctata taaaagccat tcttcttttt aagccttcca aacttgttgt gattgattta 240
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 ccggacgagt atcgtactta tacattgaat tttgcagatc ccatcttcga gcgaatgttc 360
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 gctgccaatc ctgtgaatat aatgggtgcc agcaaacgta tcatggaaga tatgataatg 600
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<210> 1855
 <211> 1506
 <212> DNA
 <213> B.fragilis

<400> 1855
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 gcttctacac aaattgacgc ggtatattcc aatccggcgg gtgtggcttt catggaaaac 180
 ggcttccact tgtcactcaa cggacagagt gcgttccaga caagaactat cacttctact 240
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 gctccgttca tttccagtgt atttgcagta tataagaagg ataagtgggc attttcgggg 360
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gtagagaaca	agacccgtat	agataataca	ggactgtttg	caaattgggt	aaatactccg	1020
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<210> 1856

<211> 1221

<212> DNA

<213> B.fragilis

<400> 1856

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gaatttggtc	cgttgacgac	tcctttatct	atcggtaacg	aaaaaaaaata	ccttgacgaa	180
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gaatatcata	tagaacttgt	cgaggatgag	gccgaaagta	ttggtagttt	ctataaaggc	660
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ggtgtaatga	cccggcccg	ttgggaattg	atgaacagac	ttgagatgtt	tcgtggatgt	1140
gagacggatg	gtttggaaaa	tactgtgtgg	ttggaagaaa	gaattgtgaa	tataccaagt	1200
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<210> 1857

<211> 234

<212> DNA

<213> B.fragilis

<400> 1857

ttgctcagaa	cagaggaatt	agtgttgaaa	aagtatttag	aggataagga	gggagatatg	60
tcaactataa	agatcaaaca	agttaaaagt	agaattgggt	ctccggctga	tcagaaaaga	120
actcttgatg	cactgggact	tcgcaaattg	aaccgtgtgg	ttgaacacga	aagcactcct	180
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<210> 1858

<211> 342

<212> DNA

<213> B.fragilis

<400> 1858

agattgctga	ccgtccgggt	ggttatactc	gtatcatcaa	gactggaaac	cgtttgggtg	60
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acaatgctga	aatgtgcttc	atcgaactcg	ttgactacaa	cgaaaacatg	gctaaagaga	120
aagttgctaa	gaaagcaact	cgtaactcgtc	gttcaaagaa	aactactgaa	gctgctcctg	180
ctgccgaagt	acctgcaact	gaagaaccga	aagctgaatc	agcagaataa	ttcaactatt	240
attcttatag	atataaaaaa	ggctgctctg	aaaagagtgg	ccttttttgt	tgattttact	300
aaagatacat	taaaaaacatt	tgaagggtgaa	cagtcggact	ga		342

<210> 1859

<211> 1851

<212> DNA

<213> B.fragilis

<400> 1859

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atttaccgta	tccgtacact	ccgactgata	cttttcgctg	caggaattgc	aggtatcatt	180
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aagatagaaa	tcaaccgaca	ggaattacaa	gcccttacat	acgatacgtc	agcttttcgat	360
aatggggagg	agtttatcaa	tccatcacat	ctttatactt	atgatctgga	cgtattttgga	420
gaacattcac	tctttcagta	cataaaccgg	actgccacgc	aacccggtaa	aaaaagactg	480
gcagaatgga	tgaatatgca	cctgaagagc	aaagcggaga	tagagaaacg	acaggaagca	540
gtacgggaac	tggtcccggg	gttagaaatg	cgccagcatt	tccgtgtact	cggatttgctg	600
cataaaggta	aaactgctga	cgaagaagaa	atcaggaact	gggcttcgag	tccggaatat	660
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atcactaaca	acgaactgac	tttctcctac	aagctcagag	atggaattgc	gcagaacatg	1800
aatgcctgct	tcttgatgaa	aaaaatggga	atagccgtca	tcgacgacta	a	1851

<210> 1860

<211> 582

<212> DNA

<213> B.fragilis

<400> 1860

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gtgaacccgg	ctatcaatgt	tgctattgaa	gatggacaca	tcactttaac	tgaaaacgaa	180
aatgcaatgc	tggataatcc	caagcagaaa	catgcatttc	acggtttgta	tcgttcgtta	240
gtacacaaca	tgggttggtg	tgtttctgaa	ggatataaga	aagaattgga	gcttggtggg	300
gttggttacc	gtgcttctaa	tcaaggaaat	atcattgaat	tagcattagg	atatacacac	360
aatatcttta	tacagttgcc	tcctgaagtc	aaagtagaga	caaaatcaga	aagaaataag	420
aatcctctta	ttctttttaga	gtcttgtgac	aaacaattgc	ttggtcaagt	ttgctctaag	480
atacgttctt	tccgtaagcc	cgaaccgtat	aaaggtaaaag	gtattaagtt	tggtggcgag	540

gaaattcgca gaaagtctgg taaatcagcc ggtgctaagt aa

582

<210> 1861
<211> 612
<212> DNA
<213> B.fragilis

<400> 1861
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tcaagaaaaa gaaaaacttc tgaatatggt attcagcttc gtgagaaaca gaaagctaaa 180
tatacttatg gagtattaga aaaacaattc cgcaacttgt tcgaaaaggc agctacagct 240
aaaggtatta ccggtgaggt acttctccag atgcttgaag gtcgtcttga caacatcgtg 300
ttccgtttgg ggattgctcc tacgcgtgca gcagctcgtc agttggtagg ccacaaacac 360
attacagttg atggacaggt agtaaacatt ccttcatacg cagttaaacc gggtcagttg 420
attggcgctc gtgaaagatc taaatctttg gaagtaattg ctaattctct cgctggtttc 480
aatcacagca aatatgcttg gttggaatgg gatgaagctt caaagggtggg caaattgctg 540
catattcctg aaagagcaga cattcctgaa aacattaaag agcatttgat tgttgaattg 600
tattctaaat aa 612

<210> 1862
<211> 489
<212> DNA
<213> B.fragilis

<400> 1862
aaaatgagac ataataagaa attcaatcat ttaggtcgta ctgcttctca cagaagtgtc 60
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aaggcgaaag ctctgaagaa attcgttgag cctttgatca caaagtctaa agaagacact 180
acaaactctc gtcgtgttgt atttagcaac ttgcaggata aactcgctgt aacagaattg 240
ttcaaggaaa tctctgtgaa gattgctgac cgtccgggtg gttatactcg tatcatcaag 300
actggaaacc gtttgggtga caatgctgaa atgtgcttca tcgaactcgt tgactacaac 360
gaaaacatgg ctaaagagaa agttgctaag aaagcaactc gtactcgtcg ttcaaagaaa 420
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gcagaataa 489

<210> 1863
<211> 1008
<212> DNA
<213> B.fragilis

<400> 1863
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accgttggta atgcttttgc cgtatcctc ctttcttcat tagaaggttt tgctatcacc 180
actatccgta tagaagggtg tgagcacgaa ttttctagtg ttcttgaggat aaaagaggat 240
gttaccaaca ttatcttgaa tctgaaacaa gtgagattca agcaagtagt tgaagaattc 300
gagagcgaaa aggtgagcat cactatcgag aattctagtg aatttaaagc aggtgacata 360
ggtaagtatt tgactggatt tgaagtgtta aatccggaat tagttatttg tcatttagat 420
tctaaagcaa ctatgcagat tgacattaca attaacaaag gtcgtggata tgtccccgct 480
gacgaaaacc gcgaatattg taccgatgtt aatgtaattc caatcgattc aatctatacg 540
ccgatacgta atgttaagta tgctgtagaa aacttccgtg tagagcagaa gactgactac 600
gagaaactgg tacttgaaat tactaccgac gggtccattc acccgaaaga agcgctgaaa 660
gaagctgcta aaattctgat ttatcacttt atgttattct ctgacgaaaa aattactctt 720
gaaagtaatg acgttgacgg taatgaagag tttgatgaag aagtattgca tatgcgtcag 780
ctgttgaaaa ctaaacttgt cgatatggat ctgtcagtac gtgccctcaa ttgcttgaag 840
gctgctgatg ttgaaacatt gggcgatttg gtacagttca acaaaactga cctgctgaaa 900
ttcagaaact tcggaaagaa atcgcttacc gagcttgatg atttgctgga aagtctgaat 960
ctgtcgtttg gaaccgatat ttctaaatat aaattagata aagaataa 1008

<210> 1864
 <211> 450
 <212> DNA
 <213> B.fragilis

<400> 1864
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 gtagaagttc ctgcttcaaa tttgaaaaaa gaaatcacta agattctttt tgaaaaaggc 180
 tacatcctta attataagtt tgtagaagat ggtcctcaag gaactattaa agttgccttg 240
 aagtatgatt ctgttaacaa agttaacgca atcaaaaaac ttgaaagaat atcttctccg 300
 ggtatgcgtc agtacactgg ttacaaagat atgccgcgtg ttattaatgg tttgggtatt 360
 gctataatat ctacttccaa aggtgtaatg acaaacaaag aagctgctga actgaaaatc 420
 ggtggtgaag tattgtgtta tgtatattaa 450

<210> 1865
 <211> 561
 <212> DNA
 <213> B.fragilis

<400> 1865
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 aagtcacaat tccagtattc ttctacaatg cagatacccg tacttaagaa gattgttatc 120
 aatcagggtt taggtatggc tgttgctgat aagaagatta tcgaagtggc aatcaacgaa 180
 atgacagcta tcactgggtca gaaggccgta gctactattt cgcgtaaaga tatcgctaac 240
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 tacgaattcc tggaaaaatt ggttcgtgtg gctttgccgc gtatccgtga cttcaaaggt 360
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 ttccctgaaa ttaatatcga tagtattacc agaattctcg gaatgaatat tacctttgta 480
 acctctgcgc aaacagatga agaagggttat gccttattga aagaattcgg tttaccgttt 540
 aaaaacgcta aaaaagactg a 561

<210> 1866
 <211> 303
 <212> DNA
 <213> B.fragilis

<400> 1866
 attatggcaa aggaatcaat gaaagcacgc gaaataaagc gtgctaaatt agtagccaaa 60
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 tttgaagctg cacagaaaatt acaggagctt cctaagaatt ctaatccgat tcgtatgcac 180
 aatcgctgta aattgactgg tcgtcctaaa ggatacatcc gtcagttcgg tgtttcaaga 240
 atccagttcc gtgagatggc atctaattggg ctgatcccag gtgttaagaa agcaagctgg 300
 taa 303

<210> 1867
 <211> 222
 <212> DNA
 <213> B.fragilis

<400> 1867
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 gcaatgtttc gtgttgaaatt agaaaacgga catgagatta ctgctcatat ttctggtaag 120
 atgagaatgc attacattaa gatcctaccg ggtgataaag tcagagtcga aatgtctcct 180
 tacgacttat cgaaaggaag aattgtattt agatataaat aa 222

<210> 1868
 <211> 477

<212> DNA

<213> B.fragilis

<400> 1868

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ggctctacta	aaacaagaaa	aagaatcggg	cgtgggtccg	gttctggctt	aggaggtact	120
tctacaagag	gtcataaagg	tgctaaatca	agatctggat	actctaagaa	aatcgggtttt	180
gaaggtggtc	agatgcctct	tcaacgtcga	gtacctaaat	ttggttttta	gaacatcaat	240
agaattgaat	ataaagctat	taacttagaa	acaatccaga	aattagctga	agctaagaag	300
ttggaaaaag	taggtgttaa	tgactttatt	gaagctggat	tcatttcttc	aagccagttg	360
gttaaagtat	taggtaacgg	aactttgact	gctaagctga	gtgtagaagc	tcatgcattc	420
tctaagagtg	cagttgctgc	tatcgaggct	gctgggtggaa	atgtagttaa	actctga	477

<210> 1869

<211> 447

<212> DNA

<213> B.fragilis

<400> 1869

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aaacaggcgg	aacaagatat	ctatatggct	atgtcaacaa	tgaaagggga	tacgcacgaa	180
acagtcagca	gtccccagac	accctatttc	cctgatgccg	aattggcccg	gaccggaatt	240
cagacgcata	agatcgcaat	gtcgcgcata	cagcgtatac	aagcggccga	atctattttt	300
tctttaaaag	cccttgctca	aaggctggca	gaccgtgatg	ctgttttatc	tcagcattgg	360
gggaagcttt	atgaaaccac	tacttcttat	tggtggcatc	ctgtaagcga	atactatggt	420
ttcgcctctaa	ggcgtattat	tgtatag				447

<210> 1870

<211> 357

<212> DNA

<213> B.fragilis

<400> 1870

atttgtatta	ttatgacaac	aaaaatagaa	agacgaatta	agatcaaata	tagagtacgc	60
aataaagtgt	caggtactgc	tgacagtcgg	cgtatgagtg	tatttagaag	taacaagcaa	120
atctatgtcc	agattatcga	cgatttgtct	ggtaagacat	tggtgctgct	ctcttccactg	180
ggtatgactg	agaagttgcc	taagaaagaa	gttgctgcta	aagtgggtga	gattattgctg	240
aaaaaagctc	aggaagcagg	tattacgact	gttgttttcg	accgtaatgg	ttacttgtat	300
catgggagag	taaaagaagt	agctgatgct	gctcgtaacg	gtggacttaa	atttttaa	357

<210> 1871

<211> 384

<212> DNA

<213> B.fragilis

<400> 1871

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ttgacctatg	tatatggaat	aggtcgtagt	agttcagcaa	aaattttaga	taaagctggg	120
gtagacaaag	atctgaaggt	gaaagactgg	acagatgata	aggctgcaaa	gattcgtgag	180
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aagcgattaa	tggtatattg	ttgctaccgt	ggtgtacgtc	accgtattgg	tctgcctgta	300
agaggtcaga	gcactaagaa	caatgcgcgt	actcgtaagg	gtagaaagaa	aaccgttgca	360
aataagaaaa	aagctactaa	ataa				384

<210> 1872

<211> 531

<212> DNA

<213> B.fragilis

<400> 1872

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aaagacagat	tagttgctat	taatcgtgtt	actaaagtaa	ccaaagggtg	tagaactttt	120
agttttctctg	caattgtagt	tgtaggtaac	gaagaaggta	ttatcgggtt	gggacttggt	180
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cgtgccgtat	tggaaagtgt	tggtgtaact	gacgttttgg	ctaaatcaaa	aggatcttca	420
aatccgcata	accttgtaaa	agccactatc	atggccttag	gcgagatgcg	tgatgcaaga	480
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<210> 1873

<211> 804

<212> DNA

<213> B.fragilis

<400> 1873

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gagctggata	aggtagcggg	agagtttatc	agagatcatg	gtgctgttcc	tacctttaa	180
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gaagtggacg	aagaagtctg	tcagttgttg	aagtaacta	aagaggcgtt	gtatattggc	420
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aaaggtcttt	gcattgcatg	tgaaccgatg	attacgcaag	gtgaccgaca	agttattatg	660
gaacgtgacg	gatggacagt	gagaaccaga	gatcggaat	gtgccgcaca	ctttgaacat	720
accattgcgg	taggtgcagg	cgaggctgat	attctgtcat	catttaaatt	catagaagaa	780
gttttaggag	ataaagcgat	ataa				804

<210> 1874

<211> 648

<212> DNA

<213> B.fragilis

<400> 1874

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gctatcgatg	caacaatttt	tgcatcttca	caccagata	ttgcaaaacg	caccagtgtt	180
tccggactta	tcttctcttg	cattatgtta	ttggcaggag	tgattgcatt	tgtttctact	240
tttgagatga	aagaccgttc	atcgactatc	agtatgggac	ttatgggtact	aggcaccgcc	300
ttgttcttga	ttggcggttt	cgggttggtc	tggaatcca	aggagattgt	ttacttgccg	360
acgggcagtg	ttgctaaaga	gcaaagtatc	ttttttgatt	tgaaacatct	ggatgaattg	420
acagacatgg	tgaagtccgg	tgatttctct	atgcaatcga	ctgccaaagg	tggtacaagt	480
ggaaatctgc	gttttagatgt	aatgctgtcc	gaagacagaa	agtttgccgc	cgtacaattg	540
ttccaatttg	tacctatac	ttataaccgc	gttacatccg	tacgttattt	cacgaatggt	600
gaagcagctt	ctattgcccgc	tttcttgact	aagacaaaag	gacactga		648

<210> 1875

<211> 405

<212> DNA

<213> B.fragilis

<400> 1875

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aatagtgaag	ggcagattat	ctcttggtcg	tctgcaggaa	agatgggatt	tagaggttct	180
aaaaagaata	ctccttatgc	agctcagatg	gctgcccagg	attgtgctaa	aattgcattc	240
gatcttggcc	tgagaaaggt	aaaagcatat	gttaaaggtc	cgggtaacgg	tcgtgaatct	300
gctatcagaa	cgattcatgg	tgccgggtatt	gaagttacag	aaatcattga	cgtaactccg	360
cttccgcata	acggttgtcg	tcttccgaaa	agacgtagag	tttaa		405

<210> 1876

<211> 1359

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (199)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1876

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gtcgtgtttc	ctggaatcaa	cccgggtatg	ctgacacaat	tgcatcgaca	aacaagtgag	180
ggccttttag	ccttggtana	cgtgttctca	ggagcagcat	tttctaatac	atctattttc	240
gcattaggaa	ttatgcctta	tatctgtgca	tcgatcggtt	tccagttgct	gggaatcggt	300
gtgccatatt	ttcagatact	tcagcagagag	ggagaaaagt	gcagaagaaa	gatgaatcaa	360
tatactcggt	atttgacgat	tgctattttg	ttgggttcagg	ccccttctta	tttgctcaat	420
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acttctacca	ttattttggc	agctggaagt	atgtttatcc	tgtggcttgg	tgaaagaatc	540
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gtacaaggta	caagaaaaat	tctgtacag	tatgcaaaga	gaatcggttg	taataaacag	780
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<210> 1877

<211> 186

<212> DNA

<213> B.fragilis

<400> 1877

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<210> 1878

<211> 534

<212> DNA

<213> B.fragilis

<400> 1878

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<210> 1879

<211> 2280

<212> DNA

<213> B.fragilis

<400> 1879

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<210> 1880

<211> 2409

<212> DNA

<213> B.fragilis

<400> 1880

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<210> 1881

<211> 3663

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (231)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1881

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<211> 1137
 <212> DNA
 <213> B.fragilis

<400> 1882

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<210> 1883
 <211> 195
 <212> DNA
 <213> B.fragilis

<400> 1883

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<210> 1884
 <211> 705
 <212> DNA
 <213> B.fragilis

<400> 1884

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<210> 1885
 <211> 2211
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<211> 198

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<210> 1898

<211> 1293

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (210)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1898

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gaagtgattg	atattcttgc	ggccggaaacg	gccatgcgct	ttctgacggc	ttatctgagc	300
agtactccgg	gtatccatac	catcaccgga	acggaacgga	tgacgcaacg	accatacag	360
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<210> 1899

<211> 2631

<212> DNA

<213> B.fragilis

<400> 1899

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atgtttacca	atgcagggat	gaaccagttt	aaagatatta	ttttgggtaa	ccaccggcgg	180
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<210> 1900

<211> 441

<212> DNA

<213> B. fragilis

<400> 1900

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gataaaatct	ttaaaagata	a				441

<210> 1901

<211> 1971

<212> DNA

<213> B. fragilis

<400> 1901

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<210> 1902

<211> 591

<212> DNA

<213> B.fragilis

<400> 1902

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atgaccgcta	tctactacgc	attcctgac	tctatgcaaa	cagacactta	tggagcccat	540
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<210> 1903

<211> 1500

<212> DNA

<213> B.fragilis

<400> 1903

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<210> 1904

<211> 1209

<212> DNA

<213> B. fragilis

<400> 1904

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<210> 1905

<211> 846

<212> DNA

<213> B. fragilis

<400> 1905

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1904
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 DNA
 B. fragilis
 1904
 846
 DNA
 B. fragilis
 1905
 846
 DNA
 B. fragilis

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<210> 1906

<211> 1158

<212> DNA

<213> B. fragilis

<400> 1906

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<210> 1907

<211> 912

<212> DNA

<213> B. fragilis

<400> 1907

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<210> 1908
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 <212> DNA
 <213> B.fragilis

<400> 1908

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<210> 1909
 <211> 1269

<212> DNA

<213> B.fragilis

<400> 1909

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<210> 1910

<211> 240

<212> DNA

<213> B.fragilis

<400> 1910

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tacatgtctg	aatataaatc	gtctacatgg	gactattaca	tatggggcgt	atccgatttt	180
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<210> 1911

<211> 1512

<212> DNA

<213> B.fragilis

<400> 1911

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<210> 1912

<211> 1029

<212> DNA

<213> B.fragilis

<400> 1912

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<210> 1913

<211> 231

<212> DNA

<213> B.fragilis

<400> 1913

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<210> 1914

<211> 1155

<212> DNA

<213> B.fragilis

<400> 1914

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gctattctgt	ttgaacttga	aatgaaaggc	gttattcggg	ttctggcagg	aggagtttac	1140
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<210> 1915

<211> 933

<212> DNA

<213> B.fragilis

<400> 1915

ggctattttt	ttattccttc	ttttattgtc	tttctaaata	attctcttac	atttgtcgta	60
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tgctcagaact	gcaaaaagtc	agttcctaata	gccattttcc	atgtttacca	tagacgtggg	180
ttccattatc	ctgcacaaaa	atgtgaggag	aatttcattt	tgctccttat	caaggagaaa	240
atgctgggtg	atagccggga	gtatgccgga	acgatgctta	aggccggaga	atttatgctt	300
cagcccatca	gttcgaaaat	agaaatgctg	gccatgaccg	atgtggaatg	tatctattat	360
cagtttaatc	aacctgaatt	gttttgtgat	atccggtata	atcgatcat	gaaggagact	420
gatcctccgt	taattccctc	acccttacct	attattcccg	aacttcaaca	ttttcttgag	480
tctgcacgta	cttatctgag	cgaaaagaag	atttgtcggg	atctcttata	attaaagcgg	540
aaagagcttg	ctttcatact	cggttatttt	tattcggatt	atgacctggc	ttccctggta	600
catcctctct	caaaatatac	ctcttcggtt	gagtgccttg	tatatcagaa	ctataagaag	660
gtgaagactg	ttgaagagtt	tgctaaactt	ggaggatata	gccagactac	attcaggagg	720
attttcgata	atgtttttca	tgagccgggtg	tatgagtggg	tgcttagccg	ccgcaaagag	780
gagatcattt	acgaacttca	gaatacagag	gctaccatct	ctgaaatctg	ttataaattc	840
gggttcgaat	ctttaccgca	tttctcaaac	ttctgtaaaa	agtcatttgg	tacctcgcca	900
cgcagcattc	gattgaagcg	ttcatccgaa	tga			933

<210> 1916

<211> 258

<212> DNA

<213> B.fragilis

<400> 1916

cttcataggc	cccaccaagg	caaaagtatc	tttgggtgtg	cttataacag	caaggagatg	60
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gacgggatgc	agccggcggg	atattctgga	cgattatccg	gtgagtgggt	tgggaagtgc	180
gctggattgg	agcggagtga	cggagaagtt	gccggaagga	gttcggatta	ttttctatcc	240
gaaagacgaa	aaaggtag					258

<210> 1917

<211> 969

<212> DNA

<213> B.fragilis

<400> 1917

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aagataacat	tgatatacaa	tctgttaact	tctatcttga	ttttattcat	gtttcaacga	120

atggatcatc	cgctccacat	gttatgggac	agggcggtga	ttgcggaat	gacttttttg	180
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gcttattatc	ctatgattct	ggttgtgacg	ttgttctatt	tcatctatag	gttcgacctg	480
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<210> 1918

<211> 219

<212> DNA

<213> B.fragilis

<400> 1918

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ttttcacctc	tggctgcacg	tgtacgaagg	gcacgtggag	agtctccaaa	ggaagctttg	180
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<210> 1919

<211> 1026

<212> DNA

<213> B.fragilis

<400> 1919

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gccatggtag	caatgccgga	tgcctggacc	agaatgatga	ttggtgtaaa	ccagaaggat	180
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acggagtaca	agaagtacac	tccttatgag	ggagacttgg	tttggaaaag	tagtgcacgc	960
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<210> 1920

<211> 498

<212> DNA

<213> B.fragilis

<400> 1920

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gacaaatcca	tcattgctgct	ttatatggaa	gactatagtt	acgaagagat	agccggaata	420
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<210> 1921

<211> 2502

<212> DNA

<213> B. fragilis

<400> 1921

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<210> 1922

<211> 1029
 <212> DNA
 <213> B.fragilis

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<210> 1923
 <211> 1134
 <212> DNA
 <213> B.fragilis

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<210> 1924
 <211> 291
 <212> DNA
 <213> B.fragilis

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 aaaaagaagc aacctaaccg aaagcagaaa caggaaaaac aagaacaaaa tggaaggaag 180

aaagagtata tgaaggtatt ttatctttcc ggaagccttc ttcattcaag agcaacggga 240
 ggagcatata gccttatacct acttcagaac cgggataaag aaagaacatg a 291

<210> 1925
 <211> 429
 <212> DNA
 <213> B.fragilis

<400> 1925
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 gagcataccc gtcacgagtt tctttcatcg gtaggcgtaa gctttgcaaa actgcatgaa 180
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<210> 1926
 <211> 768
 <212> DNA
 <213> B.fragilis

<400> 1926
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 atcgctcggt tgaaccgcga tttcatcatc gcaaaactga aagactaa 768

<210> 1927
 <211> 636
 <212> DNA
 <213> B.fragilis

<400> 1927
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<210> 1928
 <211> 1029
 <212> DNA

1925
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[illegible]

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<211> 495

<213> B.fragilis

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ctcaatatac	tgatgcgcc	ttacagtagc	cggaatttg	tgtattccga	tccggcagtc	420
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<211> 993

<213> B.fragilis

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<210> 1931
 <211> 1959
 <212> DNA
 <213> B.fragilis

<400> 1931
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<210> 1932
 <211> 879
 <212> DNA
 <213> B.fragilis

<400> 1932
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 tgcacacaaa attgtatcct gtttatacta caaggagaat tactggtcaa cagtgaagag 180
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 gaacagatgc cttgcggcgc attcatcgat ctgaaatgtc aggaactgat gtatctgatc 480
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gcacacctgg	gaggctatac	cactaccact	tttcgccgtt	tattcaagaa	catgtatggc	660
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cataccaaac	aacggatcac	cgagatcagt	aatcgttacg	gattcgactc	tttatcacat	780
tttgcacatt	tctgcaaagc	ttccttttga	gactctccac	gtgcccttcg	tacacgtgca	840
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<210> 1933

<211> 903

<212> DNA

<213> B.fragilis

<400> 1933

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gcggctatgc	tggccgatgc	tgccactca	ctatccgatt	tcatcaccga	tattgttgtc	180
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atcttttggg	atggggcttc	gtccatttat	acttttttgc	ggggcgga	gttggagtct	360
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cagtatacag	tgattcaggg	caagaagttg	aactcccagg	ctgtgatagc	caatgcctgg	480
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cgtatggatg	ggaagataac	tctggaagag	gcacatagta	cggcaactgc	cattgaaaac	840
aagctgaaag	agatgtttgg	gaaaggaacc	catgtaggca	ttcatgtgga	accgacgaaa	900
taa						903

<210> 1934

<211> 225

<212> DNA

<213> B.fragilis

<400> 1934

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atggacagta	tcgaatacta	cttaggagtc	tcagtgaat	cccagctatc	agcaactgaa	180
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<210> 1935

<211> 954

<212> DNA

<213> B.fragilis

<400> 1935

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tatttcaacc	cggcagggag	cgtgaaagac	cgtatctctc	tggctatggt	tgaagatgcc	180
gaagccaaag	ggacgttgaa	gtccggcgct	actattattg	agccgaccag	tggaaataca	240
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gagctggcaa	aactgccgga	aaatgaagga	aagctgatcg	ttgtattgct	gccggatacg	900
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<210> 1936

<211> 1278

<212> DNA

<213> B.fragilis

<400> 1936

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aacatgcgtg	cacgttcggc	caatacattt	accatcgaag	atttacgcga	gatagcccg	180
acctgtgatg	aacatggaat	gaagagttat	ctgacagtga	ataccatcat	ttacgataag	240
gatatcgaat	tgatgcgtac	cattgtcgat	gcggccaagg	aagcgggcat	ttcggccgtg	300
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<210> 1937

<211> 966

<212> DNA

<213> B.fragilis

<400> 1937

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tcgggacact	acgctgttgt	tatttacaat	tacgatactg	aaacggtctt	aattcgtgga	300
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acagaaaaga	tggtttgggg	accggatccg	ctttatgtgg	taaatataga	tgatttggt	420
atacagaata	gtgaagagac	attgattctg	aagctgaaac	caaaattggt	gataagaact	480
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gaagttgaaa	tagaagatga	aataaaaagta	gatgatgtgg	aaactcctcc	aagtggaggt	900
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<210> 1938

<211> 2157

<212> DNA

<213> B.fragilis

<400> 1938

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aaatatat	tctcggaaact	gaagttaacc	actcatccgc	taaaaatgct	ttgcatggat	180
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<210> 1939

<211> 1230

<212> DNA

<213> B.fragilis

<400> 1939

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tatgtactca	gcctgggtat	caattccaat	gggactacca	cttattatgt	ggttactgca	180
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<210> 1940

<211> 861

<212> DNA

<213> B.fragilis

<400> 1940

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<210> 1941

<211> 195

<212> DNA

<213> B.fragilis

<400> 1941

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<210> 1942

<211> 621

<212> DNA

<213> B.fragilis

<400> 1942

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621

<210> 1943

<211> 720

<212> DNA

<213> B.fragilis

<400> 1943

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<210> 1944

<211> 705

<212> DNA

<213> B.fragilis

<400> 1944

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<210> 1945

<211> 399

<212> DNA

<213> B.fragilis

<400> 1945

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<210> 1946

<211> 876

<212> DNA

<213> B.fragilis

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<210> 1948

<211> 2196

<212> DNA

<213> B.fragilis

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<211> 231

<212> DNA

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<210> 1950

<211> 954

<212> DNA

<213> B.fragilis

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<210> 1951

<211> 2031

<212> DNA

<213> B.fragilis

<400> 1951

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<211> 2286
<212> DNA
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<210> 1953

<211> 183

<212> DNA

<213> B.fragilis

<400> 1953

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cagtacggag	acgaaataaa	tcatacaaa	aatgaaattt	gcgtaaagaa	tggaattatt	180
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<210> 1954

<211> 189

<212> DNA

<213> B.fragilis

<400> 1954

ttgtattctg	ggaaattaaa	taattccatt	ctttacgcaa	atttcattct	ttgtatgatt	60
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gcgagaggta	cttatcagaa	tgataattat	gtctttgaag	agcaaatgga	tgatatcttt	180
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<210> 1955

<211> 684

<212> DNA

<213> B.fragilis

<400> 1955

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gctaaacaag	ttatcttctt	gtcagctgat	gccttcgggtg	tattgcctcc	ggatatctatc	180
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ttatcattgc	acccaactaa	atatgcagaa	gaattggtta	agaagatgga	aatgaccggt	360
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<210> 1956

<211> 216

<212> DNA

<213> B.fragilis

<400> 1956

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aataagtatt	tatatctcat	ttttttctat	ttttttattc	cgtttctgat	tagtaatgcg	180
tcaatcgtag	gttcttgtcc	tctgaaacgt	ttgttaa			216

<210> 1957
 <211> 1128
 <212> DNA
 <213> B.fragilis

<400> 1957

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cggagcgcca	ttcaccgatt	acggaacaat	agatctggct	gtgattccgg	gtgttgcttt	180
cgatcggtag	ggacatcggt	taggcccggg	caaaggatat	tacgaccggt	tattacctca	240
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agaagcattc	gacttccgta	tggatactat	tatagcacia	tgaaaacaaa	ttatcacaca	360
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<210> 1958
 <211> 498
 <212> DNA
 <213> B.fragilis

<400> 1958

attatggcaa	cagcatatca	taacttatca	gattacgatt	ttaattcagt	tccgaatgca	60
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ctggacggag	ctgtgaaaac	tttgaagaaa	catggagcca	aagaagaaaa	tatcctggta	180
aagacagtac	ccggaagttt	cgaacttacc	ttcggcgcta	atcagatgat	ggaaaatagc	240
gatatagatg	caattattat	cattggttgc	gtaattaaag	gagatactcc	acattttgat	300
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gttattttacg	gattaattac	caccaacact	atggagcagg	cagaagacag	agccggcggc	420
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<210> 1959
 <211> 1188
 <212> DNA
 <213> B.fragilis

<400> 1959

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acgaatcgtg	aacatttgga	ccgtatatta	tataagggtg	ggagtgacta	taaaatgttt	1140
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<210> 1960

<211> 1101

<212> DNA

<213> B.fragilis

<400> 1960

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ggttttggcc	gtatcggacg	tatgggtattc	cgtgcagcag	ttaagaactt	tggtaacgac	180
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tatgattcag	tacacggtcg	tttcgaaggc	gaagttgctg	tagaagacgg	tgctctgatt	300
gtaaacggaa	ataaaatccg	tctgactgca	gagatggatc	ctgctaactt	gaaatggaac	360
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<210> 1961

<211> 1554

<212> DNA

<213> B.fragilis

<400> 1961

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gataccatta	ctgctatccc	tgagaatttt	aaaaccattg	catcgacaga	caaagtggct	480
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<210> 1962

<211> 711

<212> DNA

<213> B. fragilis

<400> 1962

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attggcgccg	ttgtagccgt	aatcgtaatc	gtagcaggtg	caatcctcta	caagaatttc	180
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aacgaagaag	cagtaaaagc	cttcaccaag	attaaggata	aatacttcca	gtcttatcag	660
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<210> 1963

<211> 189

<212> DNA

<213> B. fragilis

<400> 1963

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ttacgtagtt	tgccttattg	gggctatgtg	cggttgggtc	tgttcagacc	atattgccga	180
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<210> 1964

<211> 2151

<212> DNA

<213> B. fragilis

<400> 1964

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ccattttttg	agaaatatac	aactccgtat	ggcactgttc	cttttgacaa	aataaaaaat	180
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<210> 1965

<211> 249

<212> DNA

<213> B. fragilis

<400> 1965

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gaaaaagcat	tccttaaggc	tcccgtcagc	gtagaacctc	aaaaggagga	aaagaaagat	180
ggaaagaaaa	aaacaactgc	gcaagtggat	agcacaggag	aagaagaaat	actccgactc	240
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<210> 1966

<211> 309

<212> DNA

<213> B. fragilis

<400> 1966

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tgggagacgg	tgctgggacc	tactattatg	tcgtacacaa	gggatttgta	tattcgtaat	180
caggtgttgt	atgtacactt	gacctctgct	gccctccgtc	aggagttgat	gatggggcgg	240
gaacttttgg	tccgtaattt	gaatcagaag	gttggggcta	cggtgattac	caatattatt	300
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<210> 1967

<211> 1284

<212> DNA

<213> B. fragilis

<400> 1967

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ttgggtaaga	agatcggtga	tgcattaact	tctggaaact	atttttcagc	aatagcgaaa	960
gggctgaagt	ttattttttg	atctactact	acccgacctg	aagtatctaa	agtgagtttg	1020
actacgacag	gggttgtaac	gatgggggga	acttcgcaat	ctggttcgca	tgataatgtg	1080
gaaccactat	tttcaattaa	tttgatgat	ttgatgaatg	gtaatttagc	tgcatataaa	1140
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gaacgctatg	caggagtttg	gactttgaaa	gagtcctctg	tcacccgaat	gacccggtat	1260
ggacgtgtat	tgaattataa	tatatctggg	ggagtattta	ctggtgcctc	tgtattgtta	1320
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gagaaatatt	tcaatgggta	tgccatttca	gattttatgt	cggaaagacc	catatatgaa	1500
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caatcgatat	ctattttcaga	ttataatata	ggggatggag	gaaatcaaaa	tatgtatttt	1620
tttgattggg	gaactaatat	aaagggtgat	gaagtagctg	tgggttacagt	taatatagct	1680
tataactata	agggcaaaag	acacaatgtc	tctatatccc	ggaattataa	ggtccaatat	1740
gtgcatgata	ctgctacaga	tgtaaaaata	cttggtactg	ccggaactaa	aaaagtggta	1800

1973
 1830
 DNA
 B.fragilis
 1973

attgtgaata actatcccca atttgaataa

1830

<210> 1974
 <211> 447
 <212> DNA
 <213> B.fragilis

<400> 1974
 aaaaagatgg gaaaaagtac ttttttataa gacttttaaag ctttcgccat gaaaggaaac 60
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 gttgtagccg atatcattat gccacctttg gggttactca ttgggggagt gaactttacg 180
 gacttgaaat gggtaatgaa agctgcggaa tatggggctg atggaaaaga gacggccgct 240
 gctgtgacat tgaattacgg caactttctg caggcgactt tcgattttct tatcattgct 300
 ttttctatat tcttatttat taaactgatt acaaagtga ctcagaagaa agctgaggca 360
 cctgctgcgc cgcccgacc tctgcacct acaaagaag agatattgtt gactgaaata 420
 cgtgatattat tgaaagaaaa gcagtaa 447

<210> 1975
 <211> 417
 <212> DNA
 <213> B.fragilis

<400> 1975
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 cagatttctt ttagagcgga agacggggct caaaccgcg accctcagct tggaaggcta 180
 atgctctatc aactgagcta ctcccgcaat ttttgtgggc aaagatggat tcgaaccacc 240
 gaagtcgaaa gacagcagat ttacagtctg cccatttgg ccactctggg atttgccctt 300
 ttgtttgctt ttgagtcctt ttgctttctc ttaagtaggt ttgtttctca attgcgatgc 360
 aaagatacaa ctatttattt aaactccaaa caaatcgat catttttatt gcagtaa 417

<210> 1976
 <211> 201
 <212> DNA
 <213> B.fragilis

<400> 1976
 agtcatttat tccgatttac gatagaaaat ttagttgttg aaatagcaaa tatctctttc 60
 attaccgtat atgtattatg gggggagaaa ctggaacttt cctttgatat ctcggttagaa 120
 accaagatat tgtggccttt ccttcttcct tcgggaaatg cttgttttaa ttctatgtta 180
 aagcaagtgt tctgtattta a 201

<210> 1977
 <211> 252
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
 <222> (58)
 <223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1977
 cacttccgag caggacagat actcaggata tttcctaaaa aagtaacggg taaagttnat 60
 cctacccttc gtccatgcag ctctgatacc atcctcagag ccatcaagga actgacacag 120
 gaaaacatct cctatacttc cgaccaaggc aagacctatg atttcaatac tgcagacaaa 180
 ctcaacacat tggttataaa cgctttgggt ttaccggcc aattgaagga aatttgggaa 240
 atacgatgtt ga 252

<210> 1978
 <211> 2091
 <212> DNA
 <213> B.fragilis

<400> 1978

aaagcattac	ttttgctcta	cttaaaaagt	aatcaaaagc	cgatgattaa	aaagatatta	60
gcagcattat	tggtgtttcc	tacatttgca	tatgctcaga	taaacacaga	caggggtgatg	120
atgattgccc	gaaacgcggt	atactttgag	gactatgtcc	tttccattca	gtatttttaat	180
caggtgatta	atgCGaaacc	ctatttgat	gaaccctatt	ttttcagggg	acttgccaaa	240
atcaatctgg	atgattacca	gggggctgaa	gccgactgcg	atgCGgctat	cgacagaaat	300
cctttttag	tgggggctta	tcagattcgt	gggttgGcaa	gaattaagca	gaataaatac	360
gatggtgcaa	ttgaggatta	taaaaaagcg	ctccactttg	atccggagaa	tattactctt	420
tggcacaatc	tgaccttatg	ccatatacaa	aaagaggatt	acaaagctgc	tgaagatgat	480
ttaggcaaat	tgcttgCagt	cgctccgaag	tatacaaggg	cttatttgat	gcgtggagaa	540
gtcgttttga	aacagcagga	tacgttgCgt	gccctgaatg	actttaatac	ggccattgag	600
atggataaat	atgatcctga	tgcttgggct	tcccgggcca	tcgtcaggtt	gcagcaaggg	660
aagtatgccg	aggctgaatc	ggatttaa	cacgcgacac	atttgaatgc	taaaaatgcc	720
ggaaactata	ttaaccgtgc	tttggcacgc	ttccaccaga	acaatctgcg	cggtgctatg	780
agtgactatg	acctggctct	cgatattgat	ccgaacaact	ttatcggaca	ctataaccgg	840
ggcttgctcc	gggcgcaggt	aggggacgac	aaccgtgcta	tcgaggactt	tgattttgta	900
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acaggtgact	accggggcgc	cattaaggat	tatacaaaag	tgattgatgt	atatccaaac	1020
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cgtaaaaagt	ctgataagga	tatgaataat	tatcggaaaa	tcgttattgc	agataattct	1260
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gtgaaaagtg	acttgatca	tgtgatcact	ttggctcctg	attttgttta	tgcttattat	1860
aatcgggcaa	atgtgttggc	tatgctgaaa	gattatcgTg	cggcgattgc	cgactatgat	1920
aaagctattg	aattaacaa	ggagtttgcg	gaagcttatt	ttaatcgTgg	attgacacat	1980
attttcttgg	gtaacaataa	aaacgggaata	gctgacttaa	gtaaggccgg	agagttaggt	2040
attgtttcag	catataatat	tctgaaacga	tttacagagg	tgccggaata	a	2091

<210> 1979
 <211> 1950
 <212> DNA
 <213> B.fragilis

<400> 1979

cataacatta	tgataaaaaat	aacattttcct	gatggctctg	ttcgtgagta	taacgaagga	60
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tgcggagtga	acggtgagat	ttatgattta	ggacgtccca	tcaatgaaga	tgcttcggta	180
gtactctata	agtgggaaga	tgaacaggga	aagcatgctt	tctggcacac	gagtgccac	240
ttgctggctg	aagctttaca	ggaactgtat	ccgggcattc	agtttggtat	cggtccggct	300
attgaaaacg	gtttctacta	tgatgttgat	ccgggagagg	ctgtcatcaa	agaggctgat	360
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cgggatattg	caaaaggcga	tgctttaaag	atgtttggcg	accgtggaga	aacatataaa	480
tgtgagctga	tttccgaatt	ggaagacgga	catataacta	catatacaca	aggtgatttt	540
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gctaaaaaac	gcgaccatcg	taaaatttgt	aaggagatgc	agttgttcat	gttctctgat	780
acggtgggta	aaggattgcc	tatgtggttg	ccgaaaggta	ctgctttgcg	tttgcgctta	840
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cctcatcatt	gtgaaattta	taagaatttc	ccgcgttcgt	ataaggattt	gcctttacgt	1080
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aaggcaaaga	tagaatatgg	tgaagctgct	ttctatggcc	ctaaattgga	ttttatggtg	1440
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gagcgcttcg	aactggaata	tatgggatcg	gataatcaga	aacaccgtcc	ggtaatgatt	1560
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ccgtatatgc	tgattgtcgg	tgagaaagaa	gccgaaaatg	gggaagtctc	tgttcgtcga	1860
cagggcggaag	gggacaaagg	aaccatgaaa	tttgaagaat	ttggtgaaat	tttgaacgaa	1920
gaagttcaga	atatgataaa	taaatggtaa				1950

<210> 1980

<211> 1266

<212> DNA

<213> B.fragilis

<400> 1980

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tcacttcttt	tactgtctacc	ctttctgcta	ctatcttgcg	gaggaaaaaa	gaacagcgga	120
cagttgtctg	acaccgcagt	ccaaatcggt	aaaccgcaat	ttccacaaat	tgtacctttt	180
gaaacaggca	tcgaaacaga	acaagagata	ctattgagtg	agattgccga	ttcgattcgg	240
tacatcccgt	tggaaacgaa	caataaatgc	ctgataagag	ggtaaagggg	aagcaatatc	300
atccggacaa	aagaatatct	cttcctacca	tggatcgata	aattatttca	gtacacaaaa	360
gatggtaaat	tcatacggac	actggggcgc	aaaggcggcg	gaccgggtga	gtttaactgg	420
atcatgcaga	tcgatgtgga	tgaaaaaaaa	ggattgggtc	acatgttaac	aactacgggg	480
aaaatcaata	tctattctat	ggaaacaggt	aaattcatcc	gtgcaatgaa	agttccta	540
atagaagtaa	gtgagtttgc	gatgtttacg	gttcaggata	caattgctgc	aacattcatg	600
cgaataata	acggaaaacg	taaagaacgt	atttaccttt	ctaacttgaa	aggtgacaca	660
ttgaaaattt	tcaatcggtg	ggacctattt	gacttaaca	gtaaatatcg	ctggatgatc	720
agcagtgaca	tagatcggtt	tatgtttccat	tacaaaagcc	atacctgtta	taaagaatat	780
tataacgata	ctctattttac	tattacccaa	gaaactttgg	agcctcgata	tatatccaa	840
atgggtaagt	actctttacc	gatagagtgc	agatttgaat	atctgaacgg	cgatgggaag	900
cgtcttcagg	aagtagctgc	tccttacatc	caatacaata	ccatagagac	tgactcttac	960
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actccaggtc	tgccattacg	cccgataaca	gcacttgaca	gccatacgct	gttatatgta	1140
tggaagctc	ctgaacttct	tgaaaaggct	gaaaaaactc	cttccatcct	ccaaatcgaa	1200
ccattaaaag	gattgaagga	agacgataac	ccggtaatga	tgatagtata	tttaaaacaa	1260
ccataa						1266

<210> 1981

<211> 348

<212> DNA

<213> B.fragilis

<400> 1981

ttaaatttgg	tagacaataa	aaaacaaact	ggaagtaaac	gttatattaat	gaagaatgac	60
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agcatgaaat	cgcaataccg	gatcaatgaa	cagatccgtg	cgaaagaagt	ccgcattgta	120
ggtgatgatg	tagaacctaa	agtatatccc	atTTTTcagg	ctttaaaatt	ggctgaagaa	180
aaagaactgg	atctcgtgga	gatttctccc	aatgcccaac	cacctgtttg	tcgtattatt	240
gactactcta	agtttctgta	tcagttaaag	aagcgtcaaa	aagaacaaaa	ggctaagcag	300
gtaaaagtaa	atgtaaaaga	gatacgtttt	ggtccgcaaa	cagatgac		348

<210> 1982

<211> 225

<212> DNA

<213> B.fragilis

<400> 1982

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aatgatttgg	tagaaagagt	agaagcagaa	gtgggttaatt	acaaccaa	ggttatcaat	120
cattctat	ctcctttgga	aaatcctg	cagatcaa	aattacgcag	gacgattgcg	180
cgtatgagaa	cagagttacg	ccaaagagaa	cttaacaata	aatga		225

<210> 1983

<211> 441

<212> DNA

<213> B.fragilis

<400> 1983

gaaactatgt	tacaaccgaa	aaagacaaaa	ttcagaagac	aacaaaagg	ccgcgctaaa	60
ggtaatgcac	agagaggcaa	ccagctcgct	tttggatctt	ttggtattaa	ggcttttagaa	120
actaaatgga	tcacaggccg	acagattgaa	gctgctcgta	ttgcagtgac	aagatatatg	180
caacgtcagg	gacagatttg	gattcgtatt	ttccccgata	aaccgattac	tagaaaacct	240
gctgatgtac	gtatgggtaa	aggtaagggt	agccccgaag	gattcgtggc	tccggttaca	300
ccaggtagaa	ttattattga	agctgaagga	gtatcttacg	agatcgcgaa	agaagctttg	360
cgtttggcag	ctcagaaact	tccgattact	acgaagtttg	tcgtgagacg	tgattatgat	420
attcaaaatc	aaaatgcgta	a				441

<210> 1984

<211> 735

<212> DNA

<213> B.fragilis

<400> 1984

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aactggtatg	gtggaaatga	ttacggtgac	tctttgctgg	aagatagcaa	gatccgtaaa	120
tatcttaatg	caagacttgc	gaaagcaagt	gtatcaagaa	tcgtaattga	acgtacgctg	180
aagctcgtaa	ctattactgt	ttgcactgct	cgtccgggta	ttattatcgg	taaagggtggc	240
caggaagttg	ataagttgaa	ggaagagttg	aaaaaggtta	ccgacaaaga	tattcagatc	300
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cgtcaggtag	aaggtaaaat	tgcctatcgc	cgtgccatta	aaatggctat	cgcaaataca	420
atgcgtatgg	gtgcggaagg	tatcaaaatt	cagatttcag	gacgtttgaa	tggagctgaa	480
atggcccgtt	ctgaaatgta	taagggaagga	agaactccgt	tgcacacttt	cagagcagac	540
atcgactatt	gccatgcaga	agcattgaca	aaagtgggtc	ttctcggtat	taaagtttgg	600
atctgtagag	gtgaagtttt	tggttaagaga	gaattagctc	ccaactttac	acaaagcaaa	660
gagagtggtc	gtggaaacaa	tggtggaaac	aacggcggcg	gaaagaactt	caaaagaaag	720
aaaaataatc	gctaa					735

<210> 1985

<211> 633

<212> DNA

<213> B.fragilis

<400> 1985

aaaataatgg	aagttaacgt	atataacatt	aaagggtgaag	acactggaag	aaagggttacg	60
------------	------------	------------	-------------	------------	-------------	----

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caatttatgg	ctaaccagcg	tcaggggtact	cacaagtcaa	aagagagaag	cgaaatcagc	180
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gaagcaaata	aaaatgtata	tttgtcagct	cgtaacatcg	aaggtgctaa	cgttcagact	540
atctcaggat	taaatactta	cagagtattg	aatgctgggg	ttgttgctgt	tactgaaagc	600
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<210> 1986

<211> 273

<212> DNA

<213> B.fragilis

<400> 1986

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atctcgccctg	atctttagtg	ccatacagtt	gcagttcaca	acggaaataa	atcttattcct	180
gtatatgtta	ccgaaaatat	ggtaggtcac	aagttgggtg	aattcgctcc	aactcgtaca	240
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<210> 1987

<211> 840

<212> DNA

<213> B.fragilis

<400> 1987

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ggtaaaaaat	catctggcgg	tcgtaacaac	gaaggtaaga	tgacaatgcg	ctacttaggt	180
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gcagttgtaa	aaacgatcga	atacgatccg	aaccgttcgg	ctcgtatcgc	attgttattt	300
tatgctgatg	gtgaaaaaag	atatattatt	gctcccaatg	gattgcaagt	tggtgcgact	360
ttgatgtcgg	gagagaacgc	tgcgccctgag	attggtaatg	cgcttccgct	tcagaatatc	420
ccggtcggta	cagtaattca	caacattgaa	ttgcgtccgg	gtcagggtgc	tgctctgggt	480
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cgctcgtcctc	gcaaccgtgg	tggtgttatg	aaccgggttg	atcaccgat	gggtgggtgg	720
gaaggacgtg	cttcgggagg	tcaccaaga	tctcgttaagg	gattgtacgc	taagggactt	780
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<210> 1988

<211> 294

<212> DNA

<213> B.fragilis

<400> 1988

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ggtgaagccc	tttataatgt	tacggtagtt	gatgtgaata	ctgtgaagta	tgctggcaaa	180
aataagagcc	ggtatacaaa	agcaggatct	atcaatggtc	gtacgaacgc	ttttaagaaa	240
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<210> 1989

<211> 195

<212> DNA

<213> B.fragilis

<400> 1989

actgcaactg	tatggcctac	aaaatcaggc	gaaatcattg	aagctctgga	ccaagtctta	60
acgacaactt	tcttgccctga	ttcattcata	gcaagcaatt	tcttttcgag	ttttacgtta	120
atatatggac	cttttttttaa	tgaacgactc	atagtttact	caattaatca	gattactttt	180
ttcttctctc	aataa					195

<210> 1990

<211> 270

<212> DNA

<213> B.fragilis

<400> 1990

atgatcagct	tgatggaagc	aagaaattta	agaaaagaaa	gaacaggggt	tgtgctgagc	60
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ggtaagtctg	ttagcaaaac	gaagaagtac	catgctcacg	atgaaaagaa	tgaatgcaat	180
gtaggtgata	ctgtacgcat	catggaaact	cgctcctttga	gcaagactaa	aagatggaga	240
ttagtagaaa	taattgaaag	agctaagtaa				270

<210> 1991

<211> 432

<212> DNA

<213> B.fragilis

<400> 1991

aataataaag	taataaatat	aatgggagca	agaaaaaaa	tatcggtctga	aaagagaaaa	60
gaagccctta	aaaccatgta	ttttgctaaa	ttgcaaaatg	ttcctacttc	tcctcgtaag	120
atgcgtctcg	tggctgacat	gattcggtgg	atggaaagtga	acagagcact	tggcgttttg	180
aagttttctt	caaaaagaagc	agctgcaaga	gtggaaaaat	tgttgcgctc	tgcaattgct	240
aactgggagc	agaaaaacga	acgtaaagct	gaaagtggcg	aattattcgt	aacgaagatt	300
tttgttgatg	gtgggtgctac	actcaaaaga	atgagaccgg	ctccgcaggg	aagaggatag	360
agaattcgca	aacgttcaaa	tcacgtaaca	ttgttcgttg	gttctaaaag	taataacgaa	420
gatcaaaatt	aa					432

<210> 1992

<211> 734

<212> DNA

<213> B.fragilis

<400> 1992

cctggtgatc	cagtaaaagt	aactcaaaaa	cagaatcatg	gtatggctat	gagaaagaca	60
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acagatgatg	ttgccgaact	ccccttgga	gaaggggttc	cggttcgttt	tgaaataaag	180
cgggatggga	tcatgagtcg	tgcgccggga	gatgcagctc	tttctgtcaa	caggatattg	240
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gaatatagtg	cagcccagaca	attggacgtc	aactcgtttc	cggcagtagt	cacgatgctt	360
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gattttaccg	gtggcggggg	tgcgacgaaa	cggtttaata	tcggttcgac	agatactccg	480
gctacattgg	ctaatttgta	tttgcaaccg	gtcaatccga	cggtagttcc	ggagttcttc	540
tcgtgtttcg	gaaacggtta	ccggggtgca	acgttggttg	gtcccathtt	taaaccttca	600
cagatcaact	atgtgacggg	tacgttgaaa	aggctggtta	gcggttttac	acttgaagtg	660
accaatgttc	ctgcgtatgt	caactctatg	acatgtcttc	accacggggc	tggaaggatc	720
cgcggtggtt	ctat					734

<210> 1993

<211> 1203

<212> DNA

<213> B.fragilis

<400> 1993

tccttccacc	cccgtggtga	agacgtttcg	tggttaagtt	tgtttgatat	tggaatcgga	60
aatggattga	aaaataaatt	gacagaatct	ttggctgtaa	ataatattga	gtattcaaga	120
aaattggtaa	gtacatcata	tgtatactct	gcactaatct	tttctgttat	attagtgata	180
tctttgatta	tcaattgttt	tattaaatgg	aatctacttt	tgaatgttga	gcaaatattt	240
aataatgatc	taactataac	agcttttctg	gtaattatag	cattttgtgt	gaggtttata	300
cttcaaataa	taactccagt	attggctgcc	acgcaaaata	taagatttaa	ttcattaata	360
gaatttattg	ggcaaattgg	ggcttttatt	gggtttatac	ttcttaatta	tttaggagta	420
aaatctatta	ttattttttac	aatagtagta	ttatatgttc	cattgataat	tttgtttgtt	480
ttttcaattt	atttatatct	taataaattg	aaggaaattaa	gaccttgat	tagattttct	540
gataaacagc	attttttctga	aatcttttct	cttgggtatta	atttttttat	tatacagata	600
tctgctattg	taatatccca	gactaatagt	tttcttatag	ctaatagttt	tggctctgct	660
gatgttacta	aatacaatat	tgtttttaaa	tattataaca	ttctaactct	tttggtgggt	720
attcttatga	cacctttatg	gccatcttat	acaaatgcat	atatactagg	aaactataaa	780
tggattaaga	aatctgtaaa	atactgtttg	tttatgtttt	tattaacaat	aatagtggct	840
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ataagcagat	ctttattatt	ggcaatgctc	ctatttgcat	tggttaagcat	atggaataat	960
atttttggat	gtgttggtg	ggctattgga	aagggttagat	taggtgttta	ttcaactagt	1020
ttatctgctt	tgatattttt	tccattatct	tatcttctta	aatctttacg	attagctatt	1080
gaaggagcta	tttggagtat	gataatttgt	atctcattaa	gcgcttttct	atcccctatt	1140
caaatatatt	attttattta	tacgaagaaa	aagtctttat	tcttaacgaa	attattgagc	1200
taa						1203

<210> 1994

<211> 186

<212> DNA

<213> B.fragilis

<400> 1994

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agttttgtaa	gcgaggcacc	gttgctccgc	ataagtcaaa	tatcaacaga	aagattatgc	120
atttgttttg	ccatgaatca	ttattatctg	ttaaagttat	atcccgtcat	ccaattgttt	180
aatga						186

<210> 1995

<211> 1152

<212> DNA

<213> B.fragilis

<400> 1995

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ttcgtttttc	taagtaatca	tgtttatagt	caagttgaaa	tagagaaatt	cccttctaatt	180
tttaaatttt	atgtttataga	taaacatcct	agatatttta	tagaagggtta	ttctacaagg	240
cgatatttta	gaaccatgga	agctataata	aagccagact	gtgttttttag	tattttttggc	300
ccttcttatt	ggactcccaa	agcaccat	ttaatggggg	acgcctatcc	acattatgta	360
tatccagagt	ctcctgtttt	tgatataatg	actgttaaag	ataagatacg	tttttgcttg	420
tataaaaaaa	tacataaata	ctttttgaaa	aaaaatggat	tttattatgt	ttgtgaaaca	480
gaagatgtgt	ctaactcgatt	aaagaaatat	ttgggaatat	cctctgatag	agtatatact	540
gtttctaata	catataatca	ttatttttgac	caatttaagc	tccctttgaa	ttcatttgtg	600
gagaaagatg	ttacagagtt	taagtttcta	agcttatgct	cttttgctgt	tcataaaaaac	660
ttgcaaatat	tgaatcaggt	aatccacta	ttaaatgata	ctttaaaaaa	cataaaaaatt	720
attttcgttt	taactgtaga	tagtaaaaagt	tttaagtatt	atttgtctga	agaggccaaa	780
aagtcaattg	ttaattttggg	aattattgat	gtttctaaat	gtcctcaact	ttataatgaa	840
tgtgacgcac	tattttttacc	aacattgctc	gaatgtttta	gtgctaatta	tgtagaagca	900
atgaagatga	ggaagcctat	tgttacttct	aatcttccct	ttgctactaa	tgtatgtaaa	960
aatgcagcat	tatatatttg	cccaatgaat	gcgcagtata	ttgttgaaaa	aatttctctt	1020
ttggtacgaa	ataagcaatt	atatcgaaat	ttgtgtcttg	aggagagactt	ggtgttgaaa	1080

ggtttttaaaa catctcaaga aagagcaaaa tcttatttgg aaatttgtaa atcaataatt 1140
cggaaagtat ga 1152

<210> 1996
<211> 1224
<212> DNA
<213> B.fragilis

<400> 1996
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cctgggcatc cctataaaaac attgtctttt ttatgcttat tcactatggg ttttcattta 180
aatgttggac gaggtgttaa gcgggtagat agttccattt tcgctattgt cttgttgcaa 240
atatgttatt atatatgtat ctctttctat cattctgatt ttaaaaatat taatctttgt 300
atacaactta tttcgttgtg cattattata tcctatatta agatctatgt cggatttgat 360
gtttttgtga agtcatttat ctggataatg ttaattatgg gtgtcgggtg aaccttgacc 420
ttttttttgc atttattggg ttgataact cctatattca gagttgaata tggatctgat 480
atatcttatt ttttaggttt gacaacaaca aatgtttttt ttgatagtga aggtattagg 540
gtaattcgtt atgctggttt ctttgacgaa ccaggactt tctctttgtt ctcaatTTTT 600
gccttaatat tgaataagggt atattttaat gataaaaata aggaactctt acttatattg 660
gtaactatat tcactttctc aatagcattt tatgtaacaa ttttttttta ttttttattc 720
ttttatgtga ctaaaaaaga tatgaaatat gtaccattaa taatatccgt agtttttatt 780
tgttatcttt ctttgcagaa tagtaatggg ggctctcttg gtacaatata caaactgaca 840
tttgaaagggt tggatttttc tgaagatgct agaggtaata ataataagagc tggcccaatg 900
gaaaatgata gacgaatatt ttttaataat ttcttgcttg gagtaggact tgggagtgaa 960
gaagtggagg gttctaattg ttttgctgtc ttgcacgat atgggtgttat tgggtcgttt 1020
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cgaaaattat tttttaaaat atatatgttg atacttttga ctttttttta tagaccagaa 1140
ctttcttctg ttatggtact tttagtcttt tatatgctta ttgattatat aaaaagtaag 1200
aaatatTTaa attgtaagaa ctga 1224

<210> 1997
<211> 282
<212> DNA
<213> B.fragilis

<400> 1997
ggaaaaatga ctaaagcaga tattgtaaac gaaattgcaa agaaccaccgg tgttgacaaa 60
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gacgagaatg tttacctcgg tggatttggg agcttcgtcg taaagaaaag agctcaaaaa 180
accgctcgta atatttctaa gaatacgact atcatattc cggaacacaa cattccggcg 240
ttcaaaccag ctaagacatt caccctttcg gtaaaagaaat aa 282

<210> 1998
<211> 930
<212> DNA
<213> B.fragilis

<400> 1998
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attattatag ttgataactg tagtacagat ttaacttgga gtattttgaa tacatgggca 180
agcaaagatc atagaattaa aatatatcag aataaaaacta atataggacc tgttttaaat 240
tggaatgaat gctttaagca tgcttcagggt gagtatataa agattctttg gtctgatgat 300
tggtatggcat tagattttat tgaaagagca gtgaatctaa ttgatgagaa gtcagcgttt 360
gttatatcaa atcataagat cgtatcagaa aatgggtattg tagataatgt aaagtataag 420
aaacaaaaat atacaagaaa agagtatctg tataatatat tttttcaaaa tattgagaaa 480
ttcccattat ctccctggatg tgctcttttt agaacgaaag atttgaatga taactttgtt 540
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ttgatttttt	taaatatcgt	gctaaaattat	gctcatattt	caatttttaca	atatgatggt	660
agcttttttca	gagcacataa	agagtccttc	tctatttcaa	atcagttaga	attgtattat	720
gagtgggcta	aagtctattt	tattcaaaaa	aaactgaata	aaacttatta	ttctaataata	780
aaaaaaataa	tggtttggca	acaaataaat	aaaggtaata	agattttatca	taattttatat	840
gtgtgtctga	aatataatta	ttggatgcc	ctctcatttt	gcatcattat	cttgggtgga	900
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<210> 1999

<211> 966

<212> DNA

<213> B.fragilis

<400> 1999

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atgaataaatt	tggtgtccat	ttttataacct	acttataata	ggtgtaattgt	tttagataact	180
gttttagatc	gtgtcattag	ttctgtaaaa	gaatatgatg	tttgtgtaca	agtgtatgat	240
aattgttctc	ttgataaaaac	agaaaatatt	gtatgtgcaa	agcaaaaagtt	gtatccttat	300
atatttctatt	gtaaaaaatga	aactaatata	gggctagatc	gaaatatgct	taatgtcctt	360
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gagaaatata	ttgggtactag	tcatgcatat	tctgctattc	cttgggaatc	aatgtttgagt	660
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aatctttttt	ctttaagaaa	tatttgggtct	ttatataggc	gatataattt	taagagttaa	900
agtagtatgc	gggtttttgtc	aaatattaat	aagtttaaat	ttgtgttaat	tagtagattg	960
caataa						966

<210> 2000

<211> 951

<212> DNA

<213> B.fragilis

<400> 2000

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acactgcggg	gtggaggaat	tatcttctac	ttgggtgcat	tggcttattt	tctgacaaat	180
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<210> 2001

<211> 963

<212> DNA

<213> B.fragilis

<400> 2001

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aaaagattct	cttggacaga	atttgaacct	tctgcttttc	ctcttcaaac	tctgcctaag	180
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tttacttcaa	tcgataacct	atgttatgtg	attgagggat	tattgacaaa	agatgtccct	660
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ctgacggaga	attatgtagt	aagtaacacc	aagataaagg	ttgctttggg	gattgataaa	900
atgccggtca	ccgctaaaga	agggctgata	aagactattc	gttcatttga	agaaactgaa	960
taa						963

<210> 2002

<211> 762

<212> DNA

<213> B.fragilis

<400> 2002

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tattcaaatt	ttgaatatat	tattgttgat	ggaggtagta	cagatggaac	attagatata	180
atacgaataat	atgaggataa	aatttcatat	tggataagtg	agccagataa	tggatatttat	240
gatgcaatga	ataaaggatt	ggctatttgt	aaagggtgaat	ggattaattt	tatgaatagc	300
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aaatttcata	ttttgtatgg	taaaacagta	gtaaaggaaa	caggaagagt	cattgtacct	420
cctttgaaaa	ttagaaaaaa	gtatttttta	cttgatacta	tctgtcatca	gagtatTTTT	480
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gttggttccct	tgtggggagt	tttgggggtt	tctggaaata	atttgaaatt	atttaaaaat	660
gaagagaaat	tgttggttaa	tagaaatttc	aatactgttg	aaatctattt	tattcgtata	720
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<210> 2003

<211> 720

<212> DNA

<213> B.fragilis

<400> 2003

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cttttggcac	tgttgcccga	tccggaaaga	tatgagcaac	agttgacgcg	cttttcttca	180
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ccggacgagt	tgattttctga	atatcaggga	gaagatacct	ggtctttact	tttacattgg	480
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acggaacata	agaagaagtt	catgatccgc	tatttgcctg	atccggactt	tgtgatgacg	660
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<210> 2004

<211> 1215
 <212> DNA
 <213> B.fragilis

<400> 2004

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tgttccagcg	aagatgattc	ttcacccgaa	gtgaatcctg	aaaatgctgc	aattacattt	240
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<210> 2005
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<400> 2005

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<211> 1113
<212> DNA
<213> B.fragilis

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<210> 2010

<211> 234

<212> DNA

<213> B.fragilis

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<210> 2011

<211> 2346

<212> DNA

<213> B.fragilis

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<210> 2012
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<212> DNA
<213> B.fragilis

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<210> 2013
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 <212> DNA
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<210> 2016
 <211> 765
 <212> DNA
 <213> B.fragilis

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<210> 2019
 <211> 876
 <212> DNA
 <213> B.fragilis

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<210> 2020
 <211> 372
 <212> DNA
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<210> 2021

<211> 207

<212> DNA

<213> B.fragilis

<400> 2021

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<210> 2022

<211> 1584

<212> DNA

<213> B.fragilis

<400> 2022

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<210> 2023

<211> 624

<212> DNA

<213> B.fragilis

<400> 2023

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gataatgtag	aaattaatga	ttttgtgcat	attgctgcaa	gattatctgt	tcagataggg	300
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tcaaataaga	tgttcaacga	ttgttatccc	gacatcccac	ccaaagaacg	ctctctattt	420
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<210> 2024

<211> 1008

<212> DNA

<213> B. fragilis

<400> 2024

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<210> 2025

<211> 1590

<212> DNA

<213> B. fragilis

<400> 2025

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<210> 2026

<211> 207

<212> DNA

<213> B.fragilis

<400> 2026

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<210> 2027

<211> 315

<212> DNA

<213> B.fragilis

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<210> 2028

<211> 918

<212> DNA

<213> B.fragilis

<400> 2028

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<210> 2029

<211> 225

<212> DNA

<213> B.fragilis

<400> 2029

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accaagtgtg	agaatctaaa	aaataattgt	gtacatttgc	aaaagactaa	cttcaatgcc	180
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<210> 2030

<211> 1530

<212> DNA

<213> B.fragilis

<400> 2030

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<210> 2031

<211> 1089

<212> DNA

<213> B.fragilis

<400> 2031

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<210> 2032

<211> 204

<212> DNA

<213> B.fragilis

<400> 2032

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<210> 2033

<211> 1035

<212> DNA

<213> B.fragilis

<400> 2033

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<210> 2034

<211> 1038

<212> DNA

<213> B.fragilis

<400> 2034

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gaagtgaacc	aaaacacatt	tacgcagtta	agttttacta	cttataccta	tctgcattct	420
ttggtgaatg	accgctttac	cggctcttcg	gattttcttt	atacgggaaa	agatgttgat	480
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<210> 2035
<211> 684
<212> DNA
<213> B.fragilis
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<210> 2036
<211> 1941
<212> DNA
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<220>
<221> unsure
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<223> Identity of nucleotide sequences at the above locations are unknown.
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<210> 2037

<211> 741

<212> DNA

<213> B.fragilis

<400> 2037

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gcttccatcg	gtttttatga	tgacagagga	tggactttgg	ccgacaatgt	taaaagaatt	660
acggccaaca	tcaagaactc	tttttactgg	aacgaagata	agataaaggc	tactatatcc	720
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<210> 2038

<211> 513

<212> DNA

<213> B.fragilis

<400> 2038

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gggctgaagc	gactgaagta	tcgcggatac	gacagcgccg	gggtagcgat	catcaacgac	180
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ttttgtaaga	taacggcttc	tcgtgcagtg	aggccggaaa	cattaaagtg	ctctgattcg	420
ttgataatta	gagaggcttt	ttctgacaca	ctgttgcaag	gcgggaaaga	tgaagcgacc	480
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<210> 2039

<211> 339

<212> DNA

<213> B.fragilis

<400> 2039

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[illegible]

<213> B.fragilis

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gtactgggtac	tctggcgcgga	tgcggcaatt	aactatatttg	tcataaccat	cggcgtcctg	120
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<213> B.fragilis

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taa						663

<213> B.fragilis

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<210> 2043

<211> 645

<212> DNA

<213> B.fragilis

<400> 2043

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ttctctttcc	tctacctaaa	acgtggaaaa	ggctctgtga	tttaccgtag	cgtacgccag	180
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<210> 2044

<211> 633

<212> DNA

<213> B.fragilis

<400> 2044

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gaaatgaata	agattggagt	attttacggg	tccacaacgg	ggactaccga	agatgtagcc	180
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gacgggtatcg	gcatcttata	cgaagaactt	aaagacaccc	actgcacctt	ctgcggggca	480
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ggacttcctt	tagatgaagt	gaacgaagat	ggcaaaaccg	acgagcgtat	cgctcaatgg	600
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<210> 2045

<211> 1461

<212> DNA

<213> B.fragilis

<400> 2045

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<210> 2046

<211> 210

<212> DNA

<213> B.fragilis

<400> 2046

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aaaaatcttt	acctaattga	aaatcacttg	aaacttttta	ataccttaaa	tctttatcta	180
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<210> 2047

<211> 1023

<212> DNA

<213> B.fragilis

<400> 2047

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<210> 2048

<211> 1350

<212> DNA

<213> B.fragilis

<400> 2048

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<210> 2049

<211> 2442

<212> DNA

<213> B.fragilis

<400> 2049

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<210> 2050

<211> 306

<212> DNA

<213> B.fragilis

<400> 2050

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<210> 2051

<211> 1341

<212> DNA

<213> B.fragilis

<400> 2051

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gaggttacgg	aattgcctgt	acaggttccc	ggagtagata	tcaaaggttt	gccgaaagac	360
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<210> 2052

<211> 1296

<212> DNA

<213> B.fragilis

<400> 2052

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cctgccaagt	ggatcatgac	tgcaaggcaa	tacgtgctga	atatctacac	agagaaccga	1260
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<210> 2053

<211> 1155

<212> DNA

<213> B.fragilis

<400> 2053

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<210> 2054

<211> 696

<212> DNA

<213> B.fragilis

<400> 2054

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cggacgtacg	acgtacatgg	cattcagttt	catcccgaat	cgggtgctgac	tccacaggga	660
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<210> 2055

<211> 294

<212> DNA

<213> B.fragilis

<400> 2055

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<210> 2056

<211> 1497

<212> DNA

<213> B.fragilis

<400> 2056

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<210> 2057

<211> 1089

<212> DNA

<213> B.fragilis

<400> 2057

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<211> 1161

<212> DNA

<213> B.fragilis

<400> 2058

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<210> 2059

<211> 423

<212> DNA

<213> B.fragilis

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<210> 2060

<211> 903

<212> DNA

<213> B.fragilis

<400> 2060

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<210> 2061

<211> 1206

<212> DNA

<213> B.fragilis

<400> 2061

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<210> 2062

<211> 273

<212> DNA

<213> B.fragilis

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<210> 2063

<211> 252

<212> DNA

<213> B.fragilis

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<211> 315

<212> DNA

<213> B.fragilis

<400> 2064

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<211> 1149

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<213> B. fragilis

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<210> 2066

<211> 3255

<212> DNA

<213> B. fragilis

<400> 2066

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GenBank accession number: F01111.1 (B. fragilis strain 6309)

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<210> 2067

<211> 1188

<212> DNA

<213> B.fragilis

<400> 2067

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ggatatatca	atctattgga	cgccctcaac	agttggcaat	tagtgaaaga	gctgaaagaa	180
gcgaccggac	ttccggcagc	tgttcatc	aagcatgtaa	gcccggcagg	tgtgcggta	240
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tacattgccc	aaccgggagg	ttctgttcgt	gacgatcatg	tgatagaaac	ttgtgataaa	1140
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<210> 2068

<211> 942

<212> DNA

<213> B.fragilis

<400> 2068

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<210> 2069

<211> 1518

<212> DNA

<213> B. fragilis

<400> 2069

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<210> 2070

<211> 855

<212> DNA

<213> B. fragilis

<400> 2070

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gaaaaactga	tccggctgat	gaaagcctac	aagcaactga	tgaaaatatt	cgaagtttctg	180
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acggacgcta	aataa					855

<210> 2071

<211> 996

<212> DNA

<213> B.fragilis

<400> 2071

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<210> 2072

<211> 498

<212> DNA

<213> B.fragilis

<400> 2072

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<210> 2073

<211> 846

<212> DNA

<213> B.fragilis

<400> 2073

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<210> 2074

<211> 717

<212> DNA

<213> B.fragilis

<400> 2074

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gaagaaaaga	cagtgtttta	gtatgtagat	acgctgattc	atggcaatgc	tcccaagaat	480
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<210> 2075

<211> 798

<212> DNA

<213> B.fragilis

<400> 2075

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<210> 2076

<211> 1167

<212> DNA

<213> B.fragilis

<400> 2076

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<210> 2077

<211> 222

<212> DNA

<213> B.fragilis

<400> 2077

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<210> 2078

<211> 810

<212> DNA

<213> B.fragilis

<400> 2078

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<210> 2079

<211> 1884

<212> DNA

<213> B. fragilis

<400> 2079

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<210> 2080

<211> 1059

<212> DNA

<213> B. fragilis

<400> 2080

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<210> 2081
 <211> 360
 <212> DNA
 <213> B.fragilis

<400> 2081						
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<210> 2082
 <211> 2079
 <212> DNA
 <213> B.fragilis

<400> 2082						
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<210> 2083

<211> 228
 <212> DNA
 <213> B.fragilis

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<210> 2084
 <211> 1644
 <212> DNA
 <213> B.fragilis

<400> 2084
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<210> 2085
 <211> 1029
 <212> DNA
 <213> B.fragilis

<400> 2085
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<210> 2086

<211> 453

<212> DNA

<213> B.fragilis

<400> 2086

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gtggaaaacc	tgttgaaagc	cggagccgcc	aatcagaagc	aactggatga	ttggggctct	420
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<210> 2087

<211> 195

<212> DNA

<213> B.fragilis

<400> 2087

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<210> 2088

<211> 912

<212> DNA

<213> B.fragilis

<400> 2088

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ttcaccaaga	tgcattggaac	agggaatgat	tacatctatg	taaatactct	cagattttcca	180
atcgcccgtc	ctgaaaaggc	agccatcgaa	tggagtgtct	atcatacggg	aatcggaagt	240
gacggacttg	tgttgatcgg	acactcggat	aaagcggatt	tcagtatgcg	catattcaat	300
gccgacgggt	cggaggccat	gatgtgtggc	aatgcaagcc	gatgcacg	caaatatctc	360
tatgaatacg	gactgacctc	caaaaacgtt	atcacactgg	acacctctc	gggcatcaaa	420
atattggaac	tacaccttga	aggacggacc	gtggaaactg	taacggtcga	catggggata	480
ccactggaaa	ccggtacgat	tgacttcgat	ggcgaatttc	cgttcccttc	taccaagtgt	540
tcaatgggca	accgcacatc	cgtaactttt	gtggacgaca	tccggatcgt	caatctttcg	600
gagatgggac	cgaagctgga	aaaacatcct	ctgttccccg	accgtacaaa	tgtagagttt	660
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acggggcgaa	ccgttaacgt	agtaatggac	ggaggcacac	tgaccataga	atgggacgaa	840
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ctgagagaat	ag					912

<210> 2089
 <211> 183
 <212> DNA
 <213> B.fragilis

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<210> 2090
 <211> 201
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
 <222>
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 <223> Identity of nucleotide sequences at the above locations are unknown.

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 nnnncnnna annncnncnn nncnaatnct ttncacactt tattcaccaa natatccnn 180
 ncntttatnc ccaaaaaacta a 201

<210> 2091
 <211> 279
 <212> DNA
 <213> B.fragilis

<400> 2091
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 tactacatga ccaatgcccg gatcatgaaa gagggccttg aatctaccgg cctgaaaagt 180
 tacggagggg tgaacgcacc ctatttatgg gtaaaaaact ccaaacgga acaagctcgt 240
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<210> 2092
 <211> 633
 <212> DNA
 <213> B.fragilis

<400> 2092
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 tttcctgaca tactggttgt caatcccacc tttggtgact tttttgatgt ggcgcgtttc 240
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 gcttcgttgc tcagtaaata cgatgcgtct ttttctattt tcgatgattt ggaggcattg 360
 gccaataaaa tcaatctttt gcagaatatc gagcccgaag aagaggagga cagtcaagag 420
 aatttgagcc agcgtgaaaa ggagattgtg atttgtgtgg tgaaaggaat gaccaataag 480
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633

<210> 2093

<211> 1137

<212> DNA

<213> B.fragilis

<400> 2093

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ggaaataggg	acaaacagat	ggtggcggag	aaagtgaagc	ggactccgta	ttatgaccgg	480
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ctgtttaccg	atcatactta	tgataatctg	ggcattccga	agttgccgga	tcatacctcac	780
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aacaaggagg	aactgggaaa	cctcggactg	acacaggaag	aagaagccga	tatcgtggca	1080
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<210> 2094

<211> 432

<212> DNA

<213> B.fragilis

<400> 2094

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tcaatctatt	taggaaaaga	ttatgatatt	caatattttc	ccgaccccat	ccacgcactt	180
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gtcatcatgc	tttcagtgga	agaaagtacc	agtgaagga	tcaggctgct	gcaagaagga	360
gctgtagatt	atatacctgaa	acctttcaac	ccaatggaac	taaaaatacg	tgtcaaaaaa	420
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<210> 2095

<211> 405

<212> DNA

<213> B.fragilis

<400> 2095

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<210> 2096

<211> 966

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<212> DNA
<213> B.fragilis

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<210> 2097
<211> 237
<212> DNA
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aggataagg tcatgatgac ctgcgccaga atatacaagc gggagaacgg actgttacct 180
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<210> 2098
<211> 369
<212> DNA
<213> B.fragilis

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<210> 2099
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<212> DNA
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<210> 2100
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<400> 2100

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<210> 2101
 <211> 381
 <212> DNA
 <213> B.fragilis

<400> 2101
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 gtcgcaatgg aatccaccgg tgtttactgg ataccattgt tctgccgact gcaagatgac 180
 ggactggatg ttgtattaac caacgcaagg gacataaaaa acataacaga gaggaaaacc 240
 gacgagtcgg atgccgaatg gctgctgttg ctgcaccagt acgggttgct caagacaagt 300
 tttcagctgc acaacgacgc caaacggatg aggacactca cccgccatcg tgatactctc 360
 tcccgtgagc ctcaagcgta g 381

<210> 2102
 <211> 423
 <212> DNA
 <213> B.fragilis

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 cagatggctg ccgtacagaa gaaacctgag ctgatcgcca gcttgccgct tgcgggagaa 180
 aagggtgcagc ttgcggcggt tatcgcttgc ccagaaagca tcctgcttgt agatactccc 240
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 ccgggtgttc tgaatgcggc aaggggagttg atactgcaga tgaagaagga taaagccgat 360
 ggaagatcaa gcggagccgc cattgagaaa ttcttgatg aagtcaaacc cattaaaaac 420
 taa 423

<210> 2103
 <211> 468
 <212> DNA
 <213> B.fragilis

<400> 2103
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 tatggtttgc ccggagaaac tgaccaacgc tgggcacagg atttacagca aactgtcagt 180
 cttaacgtgg agcatatttc cgcttatcat ccgatttacg aagaaggtag cctcttttac 240
 aaaatgctgc aacaacactc tgtattttcaa gtggacgagg acagtagtct gaacttcttc 300
 tccacattga tagacactct ttctgctgcc ggatacgagc attatgagat ttctaacttc 360
 tgcaaaccta gaatgtattc ccgatacaat acttcttata ggcaaggtag cccttatctg 420
 ggatgcggtc cgtccgcaca ttcttttgat ggagactcgc gcgaatga 468

<210> 2104
 <211> 255
 <212> DNA
 <213> B.fragilis

<400> 2104
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 gttgtggatc ctagattgaa tcatattcta taaaaaatg taatatatat tggtataaga 180
 aaaaattttg tgagcgcccc caatgattgg catcgcaaca gcttcaattg tcagccgctt 240
 gatatcaccg aataa 255

<210> 2105
 <211> 1611

<212> DNA

<213> B.fragilis

<400> 2105

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tgcatagcgg	gcgagacctt	catggcatac	ctgttctttc	ccgcatacgc	attatggccg	180
gcctgcggtt	cgggtggccat	attcgccttc	tccaccgcac	gggaacatct	caagccttca	240
ggacggaaaag	agaacaagtc	tccgatacag	ttgcccgtca	tttccggggg	tccataccgc	300
catctggaat	tctattacta	ttattccaat	ttcctgggtc	atggaggggg	cggttcggga	360
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ttcatctacg	attttaagga	cgtggactac	acgcagacgg	cctataacct	gacaaagaag	480
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gaaaaggatg	aaaaaccctt	tcccagcgtc	cgggttcttg	agccggagga	gattaccagg	1560
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<210> 2106

<211> 690

<212> DNA

<213> B.fragilis

<400> 2106

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gtggaacgat	tcaatctttt	gtataaaagt	tcgttttaata	aggtttgcaa	ctttgcatgc	180
ttttatgtgc	gcaataagca	agcttctgaa	gacatcacta	tggaagcctt	cctgcaactg	240
ctcgaaacca	tgaaggtgga	atcggttgat	aatcccatgg	ctctccttat	caccatcgtg	300
aaacataaat	cgttggatta	tctcaaaaca	caagtacgac	gggaagatac	caaagatgat	360
cttatacaat	ggaaacagcg	cgaactagct	atccgaatct	caaacttgga	aggctgtaat	420
cccagttata	ttttctcaca	ggaaatcaaa	tctatcgtaa	tgaaaaccct	caaccaatta	480
tcggaacaaa	ccaaaaaggt	attcattatg	agccgttttg	aaaataaatc	gggaaaggaa	540
attgcccaaa	ctctgggcat	ctcgggtcaaa	ggggtagatt	atcacatgaa	caaggccctt	600
aaagaacttc	gtgctgccct	caaagactac	ctccctatct	taacttggct	ctgttttatg	660
aacccaatca	ataaagggtg	gattttctta				690

<210> 2107

<211> 474

<212> DNA

<213> B.fragilis

<400> 2107

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cgggagaata	acaactaccc	ttataaatcc	tcccggatgt	ttacctggca	tgttctctac	180
catgaaggcc	aggtagtggc	tttcatgcct	gttgagagaa	aactcgatgg	tggttataaa	240
attgataatt	attatgccac	tcccgatagg	gagaggggga	accagttgct	gaagctgttg	300
aaaagcgtga	tcaaggagtc	gggcgatgag	acttcccctt	tgcgggagac	cgttcagaaa	360
cgggatgtcg	gaattttcaa	atacatgaat	ttcatcacga	tccgggaaac	caagttatat	420
gttatgatgg	aattggtacg	tatgggttcc	gacagtggga	aacaggatgg	ctga	474

<210> 2108

<211> 309

<212> DNA

<213> B.fragilis

<400> 2108

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gacctgaacg	gcatggtgt	aaaagatgta	gctgtggtgg	ataaagaacc	gccagccggg	120
gagaagatta	agggcgtaga	atatgtggta	attggtaaaa	ccaatcgttt	gtccgaaggt	180
gatcacggat	atattgaatt	tggctttaac	cagggacgta	aatgggatga	taaaaaatat	240
ttgcgtccga	taccgttgac	ggctactcag	ataaatccgg	ctttattgcc	tcaaaaccca	300
ggttggttaa						309

<210> 2109

<211> 1272

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (36), (149), (1025), (1084)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2109

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ctgctgaatg	cctgtgtgga	gcatatcang	caatatggag	gtcggatggg	agtattccat	180
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aaccgggata	ttctggatgt	ttaccgctgt	tgcgtgcctt	tcaaggtcgg	ttcggctgca	300
tccatgtacc	agagattctg	gcgcccttgg	gacccttgtg	tccgttgggt	cagggagatg	360
cctgtggaat	acctgggtac	ggaagcattt	gatttttata	ctccgcagat	gtgggattac	420
gagttccagg	aatgtttttc	cttttggctc	cgcaagcaac	ttggagtgca	aaaagtggca	480
tgtctgggtg	gaatacgtac	ccaggaaaagc	tttaaccggt	ggagaacgat	ctatcgtagc	540
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ccgttgtatg	actggcatac	tacggatata	tggactgcca	atggccggtt	ccgttggaaa	660
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ctggaggtaa	gcgtgcgggt	ctggcgggag	aagggcgggt	gtctggcaaa	agaaacgatc	1020
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cacnaagctc	ctgtcaggat	ggaataacct	gatgacatag	acctgcctga	attccgtgat	1140
ctgccctctt	acaagcggat	gtgcatctgc	atcctgaaaa	acgaccattg	tgcaaatcat	1200
gggcttttta	ccgaacaaag	cggagaaaaga	acgccgacgc	cagacgatgg	ccgagtacga	1260
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<210> 2110

<211> 891

<212> DNA

<213> B.fragilis

<400> 2110
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 gcagatcata accgttcggt cgatctttgt cagaagcagg ctgaaaagct ggggatactt 120
 ttaatcagag gcagcgagat tactcgctccg atggctcccg gacactttaa tgccattttt 180
 cttgctgact ccaatccatt ggaacaaaaa gagtataaag acgctttcaa tgaagccaaa 240
 aggcaggagg catttatctt ctggaatcat cctggatggg ctgcccagca accggatact 300
 actaagtggg ggcccagagc tacagaactc tataatgaag gttgtatgca tggcattgaa 360
 gtagcaaatg gccctctgta tatgcccga gccattcaat ggtgtttgga taagaatctg 420
 acaatgattg gtacttctga tattcatcaa cccattcaga ctgattatga tttctctaaa 480
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 gaagcattgg agaatcgccg cactgctgct tattatcgag agttggtgat tggacgtgaa 600
 gacttgctcc gtccattctt tgaaaaatgt gtagaaatag aagagatcag ccgtaatgag 660
 aaaggagtga cactctctat aaccaatact acggatttag tcctgaaact gaagaagacg 720
 gcacatgata cttctctggg ctatttttcgg gatatgacgc tgaagccgca tacacgttat 780
 agtgtccgta tcggatttga taatggcatc aaaggaggag atatgaattt tgaagtgacg 840
 aattttatag tgactcctga taaaggattg gagtatacta tttctctgta a 891

<210> 2111
 <211> 357
 <212> DNA
 <213> B.fragilis

<400> 2111
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 ctgtatgtgg ggggcatacc ctatgacacg aagccgatgc tggatattct ccgcggatcc 180
 ggagtagatc ccgggaaact ctctcccgcc aggtggatct ctttgcctcg ggggcagcct 240
 acacgcctgc cgggttgtga aaagccgttc atgctgttca aagcccatc cggtatatact 300
 ctcaagtgcc tggaaataac caggggcagg aacagggctt tccagacgga aatgtag 357

<210> 2112
 <211> 381
 <212> DNA
 <213> B.fragilis

<400> 2112
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 gggacccttg tgtccgttgg gtcagggaga tgcctgtgga atacctgggt acggaagcat 180
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 gctttaaccg ttggagaacg atctatcgta gcactccggg cccttcagcc gactggatat 360
 gtcctgtcga tgagggcata g 381

<210> 2113
 <211> 210
 <212> DNA
 <213> B.fragilis

<400> 2113
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 cttgtcgggg aacttacgag gtctggcatg tcggattcgt ggatacgag gaacctgggt 120
 atggataagg atgagttgct gcgtctgaag cagatatcgg gactggcgga gctttttgcg 180
 gataaggagt tccggatggc cgtagaatag 210

<210> 2114
 <211> 210
 <212> DNA
 <213> B.fragilis

<400> 2114

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atgaatgcac	aggcgcaacg	ccggaatgaa	attctggttc	ccgattttaga	tggatacact	120
actttgaagt	gcgattttcca	tatgcacact	gttttctctg	atggctctggt	ttggcctaca	180
gtacgtgtag	atgatgctta	tcgcaatga				210

<210> 2115

<211> 1320

<212> DNA

<213> B.fragilis

<400> 2115

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caggccgtac	tccgcaatcc	gcgtgccatc	agtatgattg	agaatccttc	catacgggtc	120
cagatggctg	ccatccggag	ggataaaaagt	gtcatctgct	ttatagacaa	gccggtggaa	180
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gcctccatca	aagaaccggc	cgaaaaggta	cagctggcaa	ccgtgcagaa	gaacccggaa	480
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gcgtccaagc	cggccgcaaa	gggagccccc	ttcatgctta	ccaagactcc	ggtcgggtat	1260
gcggtaaaag	ctgtgaatac	ggtcaacagc	ctgaccggc	aggccagtg	cgacatgtaa	1320

<210> 2116

<211> 642

<212> DNA

<213> B.fragilis

<400> 2116

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ggagaacgta	atcctgataa	acttgacagc	atggccgacc	tccagtgcaa	gaccccgaaa	180
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ccgacaaaaa	aacgtcgtga	ctaccacaaa	cgaaaacgaa	ccgtgggctt	cgatgtggaa	420
agaaaggcat	atgacatgtg	ggaagtgaat	gtttttgaga	taccggcat	aagccatctg	480
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aacagttcta	cagttgatgc	aacatcgcac	cgaacaccaa	gatatcagga	ggaaaaagga	600
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<210> 2117

<211> 309

<212> DNA

<213> B.fragilis

<400> 2117

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atgtggggaa	tatccacaga	agagctgaac	agtaagtctg	gtgaccgact	ttggaaatat	180
tgttcggaac	aagccaaacc	ttatctggaa	aatgggaaat	taaagttgca	taacgatcgg	240
ttaaagctaa	ccagagaggg	cattttcgtc	tcagacggta	tcatgagcgc	cctcttggaa	300
atagaataa						309

<210> 2118

<211> 1563

<212> DNA

<213> B.fragilis

<400> 2118

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cgttttttta	gcctttttta	tctattgatg	tttggttcaa	gggtgaatta	cggagaaatt	120
tccgtaattc	ctttcatttt	tcctctttat	tcacattatt	atttattact	tttgcgggca	180
aattatgaaa	ccattatttt	atataatcac	atggcaaata	taataaagtt	acgtaaaggc	240
cttgacatca	acctgaaagg	aaaagctgct	gaagagctct	caacgggtgaa	agaaccggga	300
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<210> 2119

<211> 1083

<212> DNA

<213> B.fragilis

<400> 2119

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<210> 2120

<211> 1299

<212> DNA

<213> B.fragilis

<400> 2120

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caggaattca	ggcagaatgt	ccatcgggaa	tactttgtcg	tattcgccgg	acataatcat	240
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<210> 2121

<211> 1068

<212> DNA

<213> B.fragilis

<400> 2121

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<210> 2122

<211> 2439

<212> DNA

<213> B. fragilis

<400> 2122

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<210> 2123

<211> 447

<212> DNA

<213> B. fragilis

<400> 2123

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tgtttctgct	ccccctgcat	ggtcgaacgt	tcagaaatga	ttgtctttgt	ggccgaactt	300
cttttagaaa	ttcataaggt	gaaatattca	tatttaaaag	ttacgccaa	ttatgcctat	360
gctactccta	aatataaatc	ccgaatcaac	caaagtgtga	aaaagagccg	ttatcacaaa	420
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<210> 2124

<211> 306

<212> DNA

<213> B.fragilis

<400> 2124

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ggcctgtatg	aatgcgcat	caccttaggt	agtgatatat	ttcgtgtctt	ctgttttttc	180
gataagggac	gattagtggg	tttgctttcc	ggttttcaga	aaaagacgca	gaaaaccctt	240
aaaaaagaga	tagacaaggc	tgtccgattg	atggcccaat	attatgatga	taaaaaaagg	300
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<210> 2125

<211> 951

<212> DNA

<213> B.fragilis

<400> 2125

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caaccagaca	atactataaa	actggaagt	cgaatagaga	atgaaaccgt	ttgggtgaca	180
caagcacaaa	ttgttaactt	attccagtc	agtaaagcca	atatcagtga	gcatataaga	240
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cgaatggaag	gtaatagaaa	ggttaccgcg	attcttgaat	attataatct	ggatatgatt	360
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<210> 2126

<211> 270

<212> DNA

<213> B.fragilis

<400> 2126

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aggtataagg	atgaagatac	cggttcaggc	ggcgtaaact	cacttccgaa	acctgagcta	180
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<210> 2127

<211> 183

<212> DNA

<213> B.fragilis

<400> 2127

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acatcgatat	cacaaaacag	gaaccaagca	ttaaggcaga	tatgctgcaa	gaagacgaaa	180
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<210> 2128

<211> 366

<212> DNA

<213> B.fragilis

<400> 2128

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<210> 2129

<211> 1494

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (1467), (1468), (1469), (1470), (1473), (1474), (1476), (1483)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2129

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<210> 2131
 <211> 270
 <212> DNA
 <213> B.fragilis

<400> 2131
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 atatatcgga cttggaatcc gacaaatgta gaagaagctt ctagtatgat atattttacct 180
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 <211> 207
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 <213> B.fragilis

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 aaatctatta aggtattgat agccgccacg gaatattact cactcatacg gggatatctc 180
 ggtgttgaga tcgttacatc cggatag 207

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 <212> DNA
 <213> B.fragilis

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 gttcaaatec gcaatgcccg tcagaagaaa gaaatgacgc aggcacaact ggccgagcgc 180
 attaataaaa agcgtacgtt tatctctaaa gtagagaatg atggaggtaa cttgaccctg 240
 aaaaccctga tagatatagt tgaaaggggg cttggcggta aactgaatat cgaagtaaaa 300
 atttaa 306

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<210> 2134
 <211> 1122
 <212> DNA
 <213> B.fragilis

<400> 2134
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 gccgtgttcc atttcatcgt gaacgagatc caccgcgtgg aaggctatta catgatcatg 180
 gactccgacg gcctgttcga cgtctcggac tattcccgca tggacgagca acgcatcgcg 240
 ggtattgtcg actattgcgc cgagctgggg cttttcgaca aaggactttg gcggagccgc 300
 caggttctta ccagcgagga gatacagaac aggtatatgg gcatctgcaa gtcgatccac 360
 cgcaagcctt ccatctcgga tgactacctg cttttgaacg cggctgcccc ggccgccacc 420
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 <211> 378
 <212> DNA
 <213> B.fragilis

<400> 2135
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 gtgaaacatc tgcagtcttt gagttccgat gaactatttc ggaagtacca ggagtcacgc 180
 cgggtgtaagc tgcagaacta tgagcaggcc gtcgtatcct tactcttcac ttttcccttc 240
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 tgtgataaga ctgtgcacaa ttacgtgcag tttatccgga agaaacacca tcttccattc 360
 cggtcctgtc gtttatga 378

<210> 2136
 <211> 630
 <212> DNA
 <213> B.fragilis

<400> 2136
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 gcttatgtag ccggtgtggc tgtagccatt ggcggtggta ccatacgtga tgttttattg 180
 gatgtcactc cattctggat gacgaatcct atttatttaa tttgctcggc gctggccttg 240
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 gatagcattg gtcttgcggt gtttacagta gttggtatca gcaagacgat cgattttggga 360
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 cgtgatgtat ttatcaacga gattccggtt atctttcgta aggagattta tgccatggca 480
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 atttgcctgc ctatcttgaa gggggaataa 630

<210> 2137
 <211> 312
 <212> DNA
 <213> B.fragilis

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 tatattgatt gggatgataa agtaagtgtg gagcatctgc cggcagacgg tttgtgcatc 180
 ttggcaaccg ttcccagcga ttgtaatatg agtggaatgc ccgaatgtgt ttgcccagca 240
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 attagtattt aa 312

<210> 2138
 <211> 1341
 <212> DNA
 <213> B.fragilis

<400> 2138
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<210> 2139
 <211> 498
 <212> DNA
 <213> B.fragilis

<400> 2139
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 cagcggcatg ggcgcgaggt ccgtccctct tatgagatca gcacttcgca attttctgat 180
 atgaaagtca ggagactgac gcgtaattac ggattcgggtg gatacagcat ctaccgttat 240
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 gctctttcgg ccagttga 498

<210> 2140
 <211> 267
 <212> DNA
 <213> B.fragilis

<400> 2140
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 gaagctgccg aaatggtaaa gcaggaaaaca aaagagaaat gtcaaatagc ctttcgaaat 180
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 tttgcagata ctatgagtca aatttag 267

<210> 2141
 <211> 963
 <212> DNA
 <213> B.fragilis

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 ctttcccggc ggtacggggg atacgacatg taccgtctcc ctttccgctg cgacagctct 180
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 <212> DNA
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<210> 2143

<211> 333

<212> DNA

<213> B.fragilis

<400> 2143

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gagagagcta	agttaatagc	tgctgcccc	gaattactga	atgcattaca	aggtatgctg	240
gaacggtttg	attataatga	tcaggctatt	tattcttttg	ctaccaaaga	gattgatgca	300
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<210> 2144

<211> 540

<212> DNA

<213> B.fragilis

<400> 2144

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aaccgggaag	aaaggaaaga	gctgaaggaa	cagactgtaa	aagagaagat	tgaatcgga	180
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cccgaagatc	agttcagatt	caggataaca	atctattcca	acggttcac	cagcatagat	480
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<210> 2145

<211> 198

<212> DNA

<213> B.fragilis

<400> 2145

aggataaata	tggcctggat	ggtaacccaa	aagaatatta	agattcatac	ctgcattgac	60
ggtatagatt	cagttgaaga	tgctcagagt	ataatctcgc	ataagaaatt	gaaagctctt	120
ggtgcgaaac	gtagagttta	taaagacacg	agagagagct	tttttcttat	tgaatccgat	180

198

<400> 2146

<210> 2147

<400> 2147

<210> 2148

<400> 2148

[illegible]

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aaataccttg cgcacgcac ggaagaccgg gaaggggtcg atacgtttt cgcgccgcgc 1560
tggaaccggtg aggaatggag caggctgcac gaactgggtcc ttccagatga cagcctggca 1620
aacaaggccg gcattttacg tatcctgaaa gagacgaaga atcccgcacag ccgggaacat 1680
gccctgcgcg aatatgcttc cgactacaaa cgcacccggg aaaggggtctt c 1731

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<210> 2149
<211> 357
<212> DNA
<213> B.fragilis

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<400> 2149
gcaaaaggag gaacagccgg catgaaaaag agatcatttc ttttggaag cctgcttgcc 60
ttcactctgg gagtatcggc ccagtcctat tccctgcgta ccaacgtcct ggtctggct 120
acgaccaacc tgaacctgga ggcattccatg accctgggccc gtaaattggc gcttcacctg 180
cccggtgcagt ataaccggtt ccgcttcagc aggaaccggc agttccgtaa cctatatgtc 240
gctccgggtg tacgctactg gctgctcgag agctatatgg ggccatttat cggcatgcac 300
ggcaccgcgc ggtacatata gtgtgggcaa cctcttcggc agcaggtacc gctatga 357

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<210> 2150
<211> 330
<212> DNA
<213> B.fragilis

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<400> 2150
aggcacatgg gatatgtatc gatcaaacgg ggatattgcc gttctcagaa gtacaggaat 60
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atgcgaagca cttcggcgga agaagtgcgt gtagccgctc tgggtgcattg ccataacgct 180
gttatagata gataacctgg aacaatcggg atgtgcagtg ccaaagtaca gccagaaat 240
acaaagacgg actattcggc ttaccactcc ggaatggatg acggacggag tatcagcctg 300
caccggcaaa taaacggagg aaatgtatga 330

```

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<210> 2151
<211> 288
<212> DNA
<213> B.fragilis

```

```

<400> 2151
agaatgaagg gcacatactg gtatgccgtg gactatgccg gcacggggca cctttttacc 60
tacaagcccc aaagggatgc ggggatctgg aacggggagg aggccctgca ggtttcccaa 120
ggggcactcc gggaggtatt ccccaagatc acctggcagg actcaccctg agtggttaaca 180
ctggaggtac taccctgtga ggagacctc cgctgcgcc tgtcaaagaa ctgcggttat 240
atcctgagaa aatatctccg tttcccccg gaaggaaaaa acaaatga 288

```

```

<210> 2152
<211> 186
<212> DNA
<213> B.fragilis

```

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<220>
<221> unsure
<222> (8)
<223> Identity of nucleotide sequences at the above locations are unknown.

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<400> 2152
aggaaaaangg ggaatgggga aataaagggg aggggggtgga agatgggaat gagatggttt 60
caaggagggtt ttgggagcaa attaatgttg tgggagaagg ggggggggaa tgaggagaa 120
gcggaaaaaac ggaagattaa aatggcctgg atttgtgaac cggtaacctg acagaataat 180
atatag 186

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<210> 2153
 <211> 222
 <212> DNA
 <213> B.fragilis

<400> 2153
 gttcaccgga tttatatcag ccctactatt ggtgttcctg atatgaaaaa gaaatcagag 60
 aagcaaaaata tgaatgtgaa aaatatgaat aaaataaaca cagaaaaatc tccggccatt 120
 acgcttaaca accggagact acacaaacaa aacaaacaat acatagcttt atcttcccag 180
 accaagctga caaaaacatt aaatattagg atacaaatat ag 222

<210> 2154
 <211> 417
 <212> DNA
 <213> B.fragilis

<400> 2154
 accgtagacg tatcacgcgg agaatggaga tacaggataa aagacaggaa cccattaaat 60
 aacagccata tgtatttcat acattacata cagacatacg catcggtgaa ccggaaggga 120
 agcgagctcc aggaatatgt cctgcagctc aaggacagcc tgataaagga cagggaggtc 180
 ctggatgacc tgaaagagga actccactgc cggatcgggg agcttgacgc caagtatccg 240
 cgtacacaac ccctgcatct ggatgcggca agcggcaggg atagcatcca atggatcatc 300
 cacgtgaaag gcaagccgga taacctgata tgtattattt cgattacgaa agtcagaaac 360
 ctgctgggag aaggaaccgg tttctttctc ggggaaaaga caggaggtaa agaatga 417

<210> 2155
 <211> 1296
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
 <222> (81), (138)
 <223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2155
 ttaaaataca aatgtaaaag aataagtttg aattcatatc ttttagtcag aaaacttttt 60
 gaagcgatat ttcggttacc ntatagcgtt ctctggttg cttcacatac tcttcgagga 120
 attcctataa tagcccgncac gtaccacgcc tgcagggtga ccaatggcat tacgctcgaa 180
 cttgccgtcc ttcattcttac ggatgacacc atcattgtac ttcactatga taaattcgcc 240
 caaacgtttc caagtatcga aagtgccttg cgctgtcatg tcggtatagt tggtcagaaa 300
 cttcacagcc gtttcgggat tcttctcgta caacttaaca gcaactgctt caataccttc 360
 ctgtgcctcg ttgaagggtg tttcaagttc gttctgcgta gcacgtacat cgccgatcat 420
 caaatcgtag cggggatata ccatggttggc caccagttg aaaatccaaa aagcggagtt 480
 ccaggagaag gtgatgtaat cggcaccgct tacacgcgta tagcataccg gagctttggg 540
 agtacaacaa tatacgggag tgaaaacagt catggttgga tcatccgtac caaaccaaag 600
 cacaccgctt acagcatcgg gaagattggc acgcatctga gccacaaaaa cgaaaccgct 660
 ctggttggtg gagatgggac gctcattgaa atactccttg tcgcctacct tgaaagtcag 720
 cggagagagg cggttaagggt ttttataagg tccggcacca aaatcattgc tgatgtcgag 780
 ggcggttctt tcataatggt cgcgcatggc attctttaca tcttgaacgg agagtgtgag 840
 tttcggtttt acgaacagag gcatagggtt attggtcttt ccttggatat aaggcagata 900
 ggcttcacct tggtcggtta acatattgaa gtatgtccac acacgggctt cacagaaacg 960
 gcgggcaccg aaatcgagcg gtgcataagc atcggcaaag ctgaagtctt tgttcacacc 1020
 gctgaaatat cttttttcgc gggcaaaaga aataacgtca ttagaataca tgcagttggc 1080
 cttgtcagcc atatcgaaact gatggatgag cgactggttg gcatgtgccg aaatgcagtc 1140
 gtccggcact cggacagcta cccatacggc tccccggatg ccgggacctt tacctatcat 1200
 ctccataatc catatttcat tgggatcggc aatggtgaag actcgccatg ctgtaatatc 1260
 cgtattctctg caccagttca gtgtcttcac cgcggg 1296

<210> 2156
 <211> 2292
 <212> DNA
 <213> B.fragilis

<400> 2156

aatctacaca	aaggtatgaa	aaataacact	ttgtcggggg	catattaccc	taaaaatccc	60
caaataaaac	atTTTTTTtag	aattatgaga	attacattgt	tcctattgat	ggcatgtgtt	120
TTTTCTTTat	atgccggaaa	ttcctattct	caaaatacaa	gagttagttt	tgccatggat	180
aatgtaggac	tcaataagggt	cctagaggag	atagagagtc	agacggatta	tctttttatt	240
tataatagtc	agataaatgt	aaataagcta	gttactatta	aggcaaataa	gcagacgggt	300
tcaaagggtat	tggatcaaatt	attacagaac	actgggtattg	aatataaatt	ggaaggctcg	360
catatttatat	tagaaaaaaa	agtagaagaa	gttcacaata	gctcgtccgc	cgttcagcaa	420
cagcaaaacta	aaaagataac	cggaaaagtt	gtcgataaga	caggagaggc	tattattgga	480
gcgaatgtca	aaataacaagg	tacagataaa	ggaactatta	ctgatctcga	tggtaatttt	540
atcttggagg	ttgctccaaa	ggatgtgctt	gttatcagtt	acataggcta	tttggatacg	600
aaagttccca	tagctgggca	aaaacagatc	catgtgggtg	tgtctgagga	taataaaatg	660
ttggacgaag	tcggttgtaat	tgggttatggt	actacttcta	cacgcaagat	ggcgtctgct	720
gttacagccg	tgaagggtga	gaaactacag	gacttgccat	ttaatagtgt	agcagcttca	780
ctggccggac	gtgcaacagg	tgttattgta	caatcatcag	gtgggtgaacc	gggatctgcc	840
ccttctatct	cgatccgtgg	cgggtggcgca	cctgtctatg	tcatagatgg	tgttatttcc	900
gatgcttggg	atttcaatac	gttgaatccg	aatgatatcg	aaagcctttc	aattctaaag	960
gatgcagcat	ctctggctgt	ttacggttca	cgggctgcca	atgggtattgt	gatggtgaaa	1020
accaaacagg	gaggttaagg	aaagacagcg	gtgaattata	cgtttaatgc	tgaattcagc	1080
caacctacca	aattactgaa	aaagactcgt	ggttatgact	atgcttacia	ccaaatgctt	1140
gccggtatca	atgatggttt	ggacgaggca	gatttacctt	ttaatcagga	agtattggat	1200
atcattaaaa	atcagtcaga	tccttatata	tcgggacacg	ccgatacaga	ttggctggga	1260
gaaggattga	aaactgttgc	tcctcaatac	aagcatacgg	tatcattgag	tgggaagcggc	1320
aataagggtga	attactatat	ttctctgggt	atgctcaatc	aaggtagtat	ctatacttcg	1380
aatgcactga	actatgaccg	ctatacagtt	cgcagtaatg	ttaacacgac	ttttgataag	1440
attgggtctga	aggtcagcct	gaatctgaac	ggagcttatg	aaaaaaagga	ataccctctt	1500
ttctcagcgg	caaagatctg	ggaagatctt	tataaccagt	ctccactgaa	tcgggcttac	1560
aataaggatg	gtacttatgc	cgcagttacc	gaccatccgt	tggcggaaat	ggacaagcgt	1620
tcgggatata	acaggaaacta	tggcaaattc	ataaataccc	aagtagctgc	ggactggaca	1680
ttgccttgggt	taaaggagtt	aaccttgggt	gctatgttca	actatcgtct	gaacgactca	1740
catgtgaaga	aattcagtac	taaggctcct	cagtattacg	cagatggagc	tgtatatcca	1800
ataggtaaac	cgacattgaa	tgaagaaggc	tattggggag	agtcctacia	tttcgaagta	1860
agtgccgctt	atgtgaaaac	ttttgccgaa	aagcatacga	ttgatgctaa	attcgtttat	1920
aatgttgacg	aaaatactgg	atggaatttt	aatgcatatt	gtggggaata	cttatctacg	1980
gttgtggacc	agctatttgc	cgggtgcagca	tatacgcagc	agaatggcgg	ctattcggat	2040
gaaagaggac	gtatgggatt	ggtaggcctg	ttgaaatatg	actttatgaa	tcggaatatc	2100
gtggaaggta	gtttccgtta	ctatggatcg	gataacttca	ctccaagaca	tcgttgggga	2160
ttcttcccct	ccggagcgga	ggcgtggggc	atcagtgaag	aacctttctt	taaagagtgg	2220
gaacaacatg	tattcaattt	gctcaaactt	cgccctttct	tatggacaga	cccgtacgga	2280
aaatgggagt	aa					2292

<210> 2157
 <211> 213
 <212> DNA
 <213> B.fragilis

<400> 2157

tttgggggaa	aaactgcact	tcaggattta	attaaaaggg	gctttagggt	gcctccggaa	60
actgctttat	cctgggatta	cgggggaaat	tcctttatac	tctgggattg	gaatattggc	120
tttttttcaa	ctaactgctt	tgtaaaagggt	caccttagaa	atattttctta	ttaccgcaaa	180
cccaaagggtg	gggttaatat	aattccgcgg	tga			213

<210> 2158
 <211> 1194

<212> DNA

<213> B. fragilis

<220>

<221> unsure

<222> (1159)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2158

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accattgccg atcccaatga aatatggatt atggagatga taggtaaagg tcccggcatc 120
cggggagccg tatgggtagc tgtccgagtg ccggacgact gcatttcggc acatgccaac 180
cagtcgcgca tccatcagtt cgatatggct gacaaggcca actgcatgta ttctaatac 240
gttatttctt ttgcccgcga aaaaggatat ttcagcgggtg tgaacaaaga cttcagcttt 300
gccgatgctt atgcaccgct cgatttcggt gcccgccgtt tctgtgaagc ccgtgtgtgg 360
agctacttca atatgtttac cgaccaaggt gaagcctatc tgccttatat ccaaggaaag 420
accaatgacc ctatgcctct gttcgtaaag ccgaaacgca aactctccgt tcaggatgta 480
aagaatgcca tgcgcgacca ttatgaagga accgccctcg acatcagcaa tgattttggt 540
gccggacctt ataaaacacc ttaccgcctc tctccgctga ctttcaaggt aggcgaccag 600
gagtatttca atgagcgctc catctctaca caacagagcg gtttcgtttt tgtggctcag 660
atgctgcca atcttcccga tgctgtaggc ggtgtgcttt ggtttggtac ggatgatgcc 720
aacatgactg ttttcaactc cgtatatgtt tgtactacca aagctccggt atgctatacg 780
cgtgtagacg gtgccgatta catcaccttc tcttgaact ccgctttttg gattttcaac 840
tgggtggcca acatggtata tccccgctac gatttgatga tcggcgatgt acgtgctacg 900
cagaacgaac ttgaaaccac cttcaacgag gcacaggaag gtattgaagc agttgctggt 960
aagttgtacg agaagaatcc ggaaacggct gtgaagtctt tgaccaacta taccgacatg 1020
acagcgcaaa gcactttcga tacttggaaa cgtttgggcy aatttatcat agtgaagtac 1080
aatgatgggtg tcatccgtaa gatgaaggac ggcaagttcg agcgtaatgc cattgggtcaa 1140
cctgcaggcg tggtagctnc gggctattat aggaattcct cgaagagtat gtga 1194

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<210> 2159

<211> 1761

<212> DNA

<213> B. fragilis

<400> 2159

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aatatagata gaaccatggg gaatgaagaa ctaatcaaac aggtgactga gaaagccgaa 60
aagtggctga ccccgccgta tgatgccgaa actcaggctg aagtgaacg catgctggag 120
aacgaagata agacagaatt gatcgaggcc ttttacaagg atctcgaatt tggtagggc 180
ggactccgtg ggatcatggg cgtaggtagc aatcgtatga acatctatac tgtcggagct 240
gctaccaggg gactctctaa ctatctgaac gcaaacttta aagatatgaa acagatttcg 300
gttgtagtgc gatacgattg ccgtaacaac agttctctgt ttgccaagat ctctgcggat 360
atcttctcgg ccaatggcat taaggtatat ttgttcgaag agatgcgtcc cactccggag 420
atgtcttttg ccatccgtca tctcggttgc cagagcggca ttatcctgac tgcctcacac 480
aaccgaaaag aatacaacgg ttataaggct tattgggacg acggtgcgca agtactggct 540
ccgcacgata agggcattat cgatgaagtg aataagattg cttctgctgc cgatatcaag 600
ttccaaggta acccgatctt gattcagatc atcggagaag atgtcgataa gatatactg 660
gatatgggtg agactgtttc tatcgatcct gaagcgatcg cccgccataa agatatgaag 720
attgtataca ctccgatcca cggtagaggc atgatgctga ttccgcgtgc actgaagatg 780
tggggattcg agaacgtata taccgtgccg gagcagatga ttaaggacgg taacttcccg 840
acagttgtct ctccgaatcc ggagaatgcy gaagctttga cgatggctct taatctggct 900
aaagaaattg atgccgacct tgtaatggct tccgaccggg atgccgaccg cgtaggatct 960
gcttgaaga acgataaagg cgaatgggta ttgattaatg gtaaccagac ttgtctgatg 1020
tatctttatt acatcatcac taccgaactg aaactgggca aatgaccgg taatgaattt 1080
tgtgtgaaaa ctatcgttac taccgaactg atcaagaaga ttgccgataa gaatcacatt 1140
gagatgctcg attgctacac cggtttcaaa tggattgccc gtgaaattcg tttgcgtgaa 1200
ggcaagaaga aatacatcgg cgggtggtgaa gaaagctatg gcttccctggc tgaggacttt 1260
gttcgtgata aagacgctgt ttctgcttgc tgcctgattg ccgaagtggc tgcctgggcc 1320
aaggataacg gaaagactct gtatcagttg ctgatggaca tctacgttga atatggattc 1380

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tctaaggaat	ttactgtaaa	cgttgtgaaa	ccgggtaaga	gcggtgcgga	agagattaaa	1440
gccatgatgg	agaatttccg	tgctaaccct	ccgaaagagt	tgggtgggtc	gaaagtgggt	1500
ctgtcgaaag	attacaagac	tctgaaacaa	accgacgcag	cgggccatgt	gactgacatc	1560
gatatgccgg	aacctatcga	tgtactgcaa	tatttcacag	aagacgggtg	aaaagtatct	1620
gttcgtccgt	caggaacgga	gccgaagatc	aaattctata	tcgaagtga	agggtgagatg	1680
ggatgccgca	actgttttgc	tactgccgat	gcagaagcta	ctgaaaaagt	agaagcagtg	1740
aagaagtcac	tgggtattta	a				1761

<210> 2160

<211> 195

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (54), (111)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2160

aggacggcaa	gttcgagcgt	aatgccattg	gtcaacctgc	aggcgtggta	cgtnccgggt	60
attataggaa	ttcctcgaag	agtatgtgaa	gcaaacagga	gaacgctata	nggtaaccga	120
aatatcgctt	caaaaagttt	tctgactaaa	agatatgaat	tcaaacttat	tcttttacat	180
ttgtatttta	attaa					195

<210> 2161

<211> 246

<212> DNA

<213> B.fragilis

<400> 2161

gaactattta	tccaggaaaa	cgacagtgat	cgtttccctg	tactctctcc	tatcattgta	60
gaaacgggaa	aaatcagcac	gcggatagga	gacattgtcc	gagtggagg	cactgcacaa	120
gtcctcggct	tttttagagaa	tagtcccaaa	agaaatgcc	catccaatga	aggacaaggc	180
attccaataa	tattatggat	acattttatac	gatgctaagt	atccgtcaaa	agagtattta	240
aaatag						246

<210> 2162

<211> 945

<212> DNA

<213> B.fragilis

<400> 2162

tacattgtca	tggacaaaga	tttactatat	aatttttata	aaggaaaggt	ttccatagaa	60
gaaggacaaa	gggtcaaggc	ttgggtagaa	gcatcagacg	aaaacgagcg	cgctttctat	120
agggaacgta	aaatttttga	tgctttgatg	cttaataatc	cgcttccggg	aaagaaaacc	180
tcttttttca	attttacaca	ttataaaaaa	atagagtggc	tgaaaattgc	catggctgta	240
atattgacat	ttctgcttag	ttatttctat	caggagtata	aagccgggtc	ggattcagtg	300
gcaatgagta	cgattttctgt	tcctgaagga	caaagaacca	atgtcacatt	acccgatggg	360
agtaatgttt	ggttaaatgc	atgtacaacg	atacaatatc	cgacttcttt	taacagccgg	420
gagcgtttcg	ttatactaaa	aggagaagct	tattttgatg	tgaaaaagaa	taaaagcaga	480
ccgtttatag	tgcacacaga	tgcttatagc	atcgaagtat	taggtacgaa	gtttaatgtg	540
gatgcatac	cggaaacaga	aaaatttgaa	actacattga	tgcatggcag	tgtaaggtc	600
actttgaaag	cagatttcac	gcaaacagta	atattaaagc	ctgatcataa	attgtcatta	660
gaaaaaggac	ggtttgtaat	gactaaagtg	gaagattata	atccttatcg	atggaaagaa	720
gggcttatct	gtttctctga	cgaatctttt	cctaataatta	tgaaagactt	tgaaaaggtat	780
tacggagtga	aaatagtgat	agagaataaa	aatgtattgc	agattaattt	tacggggaaa	840
ttcagacaaa	ccgacgggaat	agattatgcg	cttcgtatct	tacaaaaaaa	tatagatttc	900
caatatgaga	aagataatga	aaaacaaatt	atctatataa	aataa		945

<210> 2163
 <211> 588
 <212> DNA
 <213> B.fragilis

<400> 2163

tcctatgtaa	tgcataattaa	gactaatccg	aaagataaaa	tgtcttttaa	tcagctatat	60
aatgattatc	agacacgttt	tttgaatfff	gctaatacct	atgtcagaga	ttgggatgta	120
gcggaagata	taacaacaga	ggcggttaatt	tattattggg	aaaacagaaa	tactttatct	180
gaagtatcca	atattcctgc	atatatactt	accatcataa	aaaacaaaag	tcttaattat	240
cttcgtcatt	tgcagatacg	ggaagaacat	tctgaaaata	ttagaaaata	tattgagtgg	300
gaactcaatg	cacgtatcgt	ttcttttagat	gcttgccaac	cttatgaact	tttagtcaaa	360
gagatgcaag	agctgattca	gcaaaccttg	gataaattgc	cggagcgtac	acgcaaaata	420
tttattttta	gccgttatga	aaacaaatcg	tataaggaga	ttgctgctct	aatgaatatg	480
acaaccaaag	gtgtagactt	tcatatftgt	aaagctftaa	aggcattaca	gattaaccta	540
aaagattatt	ttccattatt	tctftatftt	ttgatgaaat	ttcactag		588

<210> 2164
 <211> 1890
 <212> DNA
 <213> B.fragilis

<400> 2164

gaagatagac	taaaaacaat	ggaagagaac	gaactgatac	ctgtagacaa	caaccctgta	60
gaatatacag	acgacaacat	ccgacacctg	agcgacatgg	aacatgtgcg	cacccgtccg	120
ggtatgtaca	tccgtaagct	ggcgacgggt	tcgcataccg	aagacggaat	atatgtcctt	180
ctgaaagaag	ttattgacaa	cagtatcgac	gagttcaaaa	tgcaatccgg	caagaagatc	240
gaaatcagag	tggaagagaa	tcttcgtgtc	agtgtacgcg	actacggccg	cggtatccca	300
cagggaaaac	taatagaggc	agtcagtgtg	ctgaacaccg	gtggtaagta	tgacagcaag	360
gctttcaaga	aaagtgtcgg	actgaacggg	gtcggcgtga	aagctgtcaa	tgctttgagc	420
tcaaacctttg	aagtacgtag	ttaccgggat	ggtaaagtgc	gttgcgccac	ctttaccaaa	480
ggagagttgg	tgacagacca	cacagaagat	acggaagaag	aaaacggtac	ttacatcttc	540
ttcgaaccgg	atgaaacttt	attcctgaat	tatagtttcc	gtcccgaatt	tatcgagacg	600
atgctgcgca	attacacata	cctgaacacc	gggctggcaa	ttatctataa	tgggcaaccg	660
atcctttcgc	gcaatggcct	ggtagatttg	ctgaatgata	acatgacagc	taccggcctc	720
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tacggagagg	agtactactc	atttgtaaac	ggtcagcata	ccactcaggg	aggtaccat	840
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gactatactg	acatccgtaa	cggactggta	cccgccattg	ctgtcaacgt	ggaagaacct	960
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gaactactcg	aattttacat	gggtagaagt	acaatggaac	ggcaaaactt	tattattgat	1860
aatctggtta	tagaagaaga	catcgcataa				1890

<210> 2165
 <211> 483
 <212> DNA

<213> B.fragilis

<400> 2165

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gacccgttta	ccatcggaca	ctactccgta	gttcaacgca	ccctgacatt	catggacgaa	120
gtggtcatcg	gtatcggat	caacgaaaac	aagaatacat	actttccgat	cgagaaacgt	180
gtggaaatga	ttcgttaagtt	ctataaagac	gaaccccga	tcaaggtcga	atcttacgat	240
tgcctgacga	tcgactttgc	ccgtcaggta	gatgcccaat	tcatacgttcg	cggatatccgt	300
accgtgaaag	acttcgaata	cgaagaaaca	attgccgata	tcaaccggaa	actggccggc	360
attgaaacca	ttctgttatt	taccgaaccg	gaattgacct	gtgtcagctc	taccatcgctc	420
cgcgaaactgc	ttggctataa	taaggatatc	agtatgttca	ttcccaaagg	gatggaaatg	480
taa						483

<210> 2166

<211> 441

<212> DNA

<213> B.fragilis

<400> 2166

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gtcagccgca	agggagtgat	ggaagcactg	catcccaata	caaagaagat	gttgaacaga	180
ttactgccga	tcacattacc	gatggctatt	tccggattct	ttttcaaggc	agccactatc	240
gatgtagcaa	gttccggtag	ggagggtacct	ccggctacca	gtgtgagtc	gataacagat	300
tcgtgacgc	caagggtgccg	tgcgatgttg	cttgctccct	ctacaaacca	ttgtccccc	360
aaaataagtc	cggccaatcc	gcccagaatg	aaaagtacgg	atttccacat	cgggaggctt	420
ttgatttcct	cttccgggtg	a				441

<210> 2167

<211> 1146

<212> DNA

<213> B.fragilis

<400> 2167

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attcgtttta	attacgaatt	atacaaagag	aatccttatt	ccgtacctga	cctctacgac	120
gacatgctga	atacattcaa	taagaagaaa	aatgcccgat	tcgagttctg	tgaggccgag	180
tactttctgg	cttataaaga	cggaaaaaat	gtagggcgca	tcgcaggat	tatcaatcac	240
cgtgccaatg	ccacttggaa	caaaaaagat	gtccgtttcg	gttggatcga	cttcacgcac	300
gaccttgaag	tatctttccag	acttctgcaa	accgtagaag	aatggggtaa	atccaaagg	360
atggagaaca	ttcaggggacc	tcttggattt	accgacttcg	acgcagaagg	tatgctgac	420
gaaggattcg	accaactcag	taccatggca	accatctaca	atcatcccta	ctatccgcaa	480
cacatggaga	aactgggatt	tgagaaagat	gccgactggg	tggaaatacaa	aatttatatt	540
cctgacgcca	tccctgagaa	acaccagcgc	atatccgatc	ttattcagcg	taaatataac	600
ctcaagataa	agaaatatac	ctcatccaga	aagattgcag	ccgattacgg	acaagccatc	660
tttgagttga	tgaacgaagc	ttatagtccg	ctgtacggat	actctccgct	ttcgcaacgg	720
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ttaggtttta	tctttgcaga	aagcaacccc	gaactggaaa	tgaacggaaa	ggttcaggca	1080
caatgggaat	actttaaaac	cgaacaacat	aaacgtcgct	gtgcgtttac	taagaagata	1140
gactaa						1146

<210> 2168

<211> 972

<212> DNA

<213> B.fragilis

<400> 2168
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 atcgtaatcg gcctgactat cgtagctttc ggaacttccg ccccggaact gaccgttagc 180
 gtatcgctcg ccttgaaagg tagcgcggaac atcgccgtag gtaacgtagt gggaagtaat 240
 atcttcaata cattgatgat cgtcgggtgc accgctctat ttgctcctat cgtaattacc 300
 cggaatactt tgcggaaaga gattccgcta tgcattctct cctccatcgt cctgctgata 360
 tgcgccaatg acgtttttct gaataaagct tccagcaaca tactaagcat ctcgacgga 420
 ctgattctgc tctgtttctt caccatcttc ctgggctaca catttgccat agcctcacc 480
 acaacaata ctcaaccgga agaggaaatc aaaagcctcc cgatgtggaa atccgtactt 540
 ttcatctctg gcggtattggc cggacttatt ttcgggggac aatggtttgt agaggagca 600
 agcaacatcg cacggcacct tggcgtcagc gaatctgtta tcggactcac actggtagcc 660
 ggaggtacct ccctaccgga acttgctaca tcgatagtgg ctgccttgaa aaagaatccg 720
 gaaatagcca tcggtaatgt gatcggcagt aatctgttca acatcttctt tgtattggga 780
 tgcagtgctt ccatcactcc ctgcggtctg acaggcatca ataacttcga ccttttcacc 840
 ttggtcggtt cgggcattct gctctggttt ttcggattat tttttgcaa acgcaccatc 900
 acacggatcg aaggaagtat tctggtgtta tgctatatag cctacaccac ctatctgatc 960
 tatcagattt ga 972

<210> 2169

<211> 921

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (795)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2169
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 ctacaggcac agaacttttg ctcacccgcc atgcgaaaat tacaactggc agagttcgcc 120
 atctctaatt tatatgtaga tacggtcaat gaaaacaaac tggttgaatc ggccatcata 180
 gaaatgctgg cacagctcga cctcatttcc acctattcgg atgccgaaga ggtgaagaaa 240
 atgaatgaac cgctccaagg caatttcgaa gggatagggtg tacagtttca gatgatcgaa 300
 gatacgttgc tcatcgtaca accggtgagt aatggcccgt cggaaaaggt aggtatcctg 360
 gcaggagacc gtatcatcgc ggtgaatgac acagccatag caggcgtaaa aatgggaaca 420
 gaagaaatca tgggacgcct gcggggcccc aaagattcga aagtaaacct gaccattatc 480
 cgagaggtg tgaaagaacc gcttttattt aatgtaaaac gagataaaat tccaatcctc 540
 agcctggatg ctgcttatat gattcagcct aaaataggat acatccgtat caaccgtttt 600
 ggagcaacta ccgccgaaga gtttctaaaa gccctgaaag agttacagaa aaaagggatg 660
 aaagacctga ttctggacct gcaaggcaac ggaggtggtt atctgaatgc cgccatcgat 720
 ctggcaaacg agttcctggg acaaaaaaaaa ctgattgtct acacagaaag accttctgca 780
 caacgcaatg aagtnttttg ccaaggcaac ggaaacttcc gtaacggacg tctggtggaa 840
 ttggtagaca aatattcgct ttgggcagtg aaaattggga caggtgccat tcaagattgg 900
 gaacaaagga atggtgggta g 921

<210> 2170

<211> 627

<212> DNA

<213> B.fragilis

<400> 2170
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 gtaacaggtg ttgttatttc tgaagaagac gggcaaccag ttgttgagc ctctgtattg 180
 gctaaaggca ccactgtagg tgttattact gatgtagatg gtaaatctac attatctggt 240
 ataccaagtt ctgcaaagac tttgcagatt tcatatattg gtatgcagac cgctgaggtg 300

gcaattgcac	ctaattattag	agtaatatatta	aaaacagact	caaaagcact	tgacgaggtt	360
gtggtagttg	cttacggaac	acaaagtgtc	cgtacgggtga	ccgcatctgt	atctactgta	420
agagcggatg	ctttgaaaga	tgtgccaaagt	gtaagttttg	atcagatgct	tcagggacgt	480
gcgtcaggtg	ttagtatcac	cactccgtca	gcaggtgtag	ggcaggcccc	gattgtgcgg	540
gtacgtggtg	tgaactcgat	tacttccggt	acttctcctc	tgtatgttgt	cgatgtcttc	600
accgggggtg	caatgattgc	tcgtggg				627

<210> 2171

<211> 1197

<212> DNA

<213> B.fragilis

<400> 2171

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ctgaataaaa	aggggtatggc	attagtacag	gttgaggcct	atttaaacag	aaaaaagaaa	120
tattttctcta	ccaaagttta	cttgagttccc	gatcaatggg	attttaagaa	gagaatgggt	180
aagaaccatc	ctaattgcaga	tgctatcaat	cacatgcttt	acgagtttat	ggcagaaata	240
gagaagaaag	agttgggatt	gtggcaacag	gggaaacaga	tttcattgga	ttcattaaag	300
aattctatgg	aaaatcaaga	cgacagcact	tcattttattg	cattttttccg	caacgaaata	360
gcaaaatctt	cattgaagga	aagtacaaaa	cgcaatcatc	tctcaacatt	agaattatta	420
aggagttata	agaaggatgt	gtcattttct	gaattgactt	ttgaatttat	atcctcattt	480
gatcactatc	ttcagcaaaa	aggatatcat	actaatata	ttgcgaaaca	catgaaacat	540
ctaaagcgtc	atattaatgt	agccataaat	aaagaatata	tggagatata	gaaatatgcc	600
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gatgctttcc	tcttttgttg	ttatgcagga	ttacgatatt	ctgacttcac	caacttatcc	780
cctgaaaaca	tagtgaaaat	gcatcaagaa	acttggctta	tttataaatc	tgtgaaaacg	840
aacacggaag	tacgtcttcc	gcttttatctt	ttatttgagg	ggaaaggaat	agaagtcttg	900
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aaggagctat	tgatcatagc	aaaattatca	gggctaaata	aacgtatttc	gttccatacc	1020
gctcgccata	ccaatgccac	attattaata	tacagtggag	tcaatattac	tactgtacaa	1080
aagctattgg	gacataaaag	tgtgaaaaca	acacagggtt	atactaatat	aatggacata	1140
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<210> 2172

<211> 471

<212> DNA

<213> B.fragilis

<400> 2172

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gctgtaggtt	gtacaaatgc	gaagaaagcc	gatgtatctg	cggcaggcag	cgataccaca	120
caagtgatag	atatgcatac	tgccgaaacc	tctctcgatt	actatggagt	ttacaaaggt	180
acggttccgg	ctgccgattg	tccgggcata	gaactgaccc	tgacattgaa	gaaggatcgc	240
acctatacgt	atcattgggc	ttatattgac	cgtaaagatg	ccgatttcga	tgaaaccggt	300
acgtttacgg	tgaaggataa	tctgcttacg	cttactgaaa	aaggaggcga	agtgtcttac	360
ttcaaagtgc	aggaaggcag	cctgggtgatg	ctgaacaatg	agaaacagcc	tgctaccggt	420
actttggccg	atgcctatgt	attaaagcag	gaagaggtgt	tcctcgattg	a	471

<210> 2173

<211> 2217

<212> DNA

<213> B.fragilis

<400> 2173

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gcggttatgt	tgctcctttt	cggggcgctt	atttacatgg	ctatcgagga	gggagatcgt	120
ttttcacacc	atgcggtagc	atcgtcaact	gtcgcagaag	acactccttt	cactatgttt	180
tgtcagtttg	tcaccgacaa	cttacatcat	cccttgagta	tattgctgat	acagatcatt	240

gctgtcctgc	tgatggtaag	gcttttcggc	tttctgttca	agcacatcgg	gcagcccggg	300
gtgattggtg	agattgtggc	gggtattgtg	ttggggcctt	ctgtgttagg	ctattttttc	360
ccagatgtgt	ttcaagccct	tttccctccc	gaatctctta	ccaatctgga	gttgctgagc	420
caggtcggac	tggttctttt	catgttcgta	atcgggatgg	aactagactt	tagcgtactc	480
aaaaacaaga	taaacgaaac	attgggtcatc	agccatgcgg	gtatattggg	tccgttcttc	540
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aaatattcgt	ctcagatccg	gacacggcct	tttagtggtg	ctgccaatct	gacttcggca	2100
gcgaaggatg	gcttgcttgt	gatgagtcac	ttatcttata	cgaagctgtc	cgaagaagaa	2160
gaggtgttcc	gcgatttgcc	ttcactgttg	gtcatccgga	ggcctaagaa	gggttga	2217

<210> 2174

<211> 354

<212> DNA

<213> B.fragilis

<400> 2174

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caaagtctga	acgagcagat	gttgctggaa	ctaaccgggg	cggccaataa	tcttgatgag	120
gcgaaactag	aaagcgagct	tgccgaccgt	tctctccaac	aggccgagga	aaacaggcgt	180
gtcagcaaaa	accaatatga	agtggtgattg	gaaacccttt	ccgaccatct	ggaaggacaa	240
gctttatggc	aacaggcata	cgaaacgaaa	gtgaatgcac	atttccagct	ttatctgaat	300
tatgtggcct	atttgaaagc	ggcaggtata	ttatataata	agattaattt	ataa	354

<210> 2175

<211> 546

<212> DNA

<213> B.fragilis

<400> 2175

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tcaatcatgg	agaaatttga	ctccatgctt	tcaccggtta	tcgactcaac	actgggtcag	120
agatgcagca	gtatcttcgg	atatcagttc	agcgagatag	tccgttcgct	gatgagcgtt	180
tatttctgtg	gcggctcatg	cgtggaagat	gtaacgtcac	aactgatgcg	ccatctctcg	240
tatcatccta	cccttcgtac	atgcagctct	gataccatcc	tcagagccat	caaggaactg	300
acacaggaaa	acatctccta	tacttccgac	caaggcaaga	cctatgattt	caatactgca	360

gacaaactca	acacattgct	tataaacgct	ttggtttcta	caggcgagtt	gaaggaaatt	420
gaggaatacg	atgttgactt	tgaccatcag	ttccttgaaa	cggagaagta	tgatgcaaaa	480
ccgacctaca	aaaagttcct	cggctacagg	cctggcggtat	atgttatcgg	tgacaagata	540
gtttat						546

<210> 2176

<211> 252

<212> DNA

<213> B.fragilis

<400> 2176

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gtgttgcaaa	aagaaaacaa	gcaaaactct	aatatgacat	ggcaaaaata	caaattaaat	120
ctgagaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
tttcacccgt	tatcgactca	acactgggtc	agagatgcag	cagtatcttc	ggatatcagt	240
tcagcgagat	ag					252

<210> 2177

<211> 1077

<212> DNA

<213> B.fragilis

<400> 2177

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ggggcccgag	ctttggtgct	ctgtaccata	cttttttgct	tgtgcgcctg	tacggaagat	120
gcttcctata	cggcaggagt	ctggtaccgc	cgttcggact	tcgacgggggt	ggcacgtacc	180
gatgctgccg	gtttcacgat	tggcaacaaa	ggatatatct	gtggagggtta	caacgggaaa	240
acaacccgtc	tggccgatac	ctgggagtat	gacatcgaca	atgactgggtg	gacgcaacgt	300
gccgatatgc	ccggtacggt	tcggaatgcc	gctacagggt	tcccgggtggg	gaataaagggt	360
tacatcacta	ccggttacaa	tcccgatcag	aagtatctgg	ccgatacgtg	ggagtacgat	420
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cttgggtttg	gcattgataa	ttatggctat	gtaggtagcg	gttacaatga	taactatttg	540
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ggtttcggtg	gacaaaaagc	tcagggagcc	acagcctttg	tgatcaatgg	aaaagcctat	660
gtctgtggag	gacagaacaa	caattccgat	gtgtcggact	tttggcggtt	cgatccttct	720
gccgccacgc	cgtggacaca	attgagagat	attgccaata	ccagcgacga	tgattatgat	780
gacgattata	cttctattgt	ccgttcttac	ggagtcagtt	ttgtgatcga	tggaanaagcg	840
tatctgactt	tgggctctac	tgccggagga	agttattatt	cgaactattg	gatctatgat	900
cctgaaaccg	atctttggga	aggagacgac	ctgacagcgt	ttgaaggcag	tacacgcatac	960
catgctgtct	gtttttctac	cggaacccgg	gggatcattg	cgacaggcgg	cagtggatcg	1020
agttcatact	ttgatgacac	ttgggagttg	aagccttatg	aatatgaaga	agaataa	1077

<210> 2178

<211> 1209

<212> DNA

<213> B.fragilis

<400> 2178

cccatgaaaa	gaaacctgat	tctattgctt	actctttgcc	actccacttt	attaatatat	60
agtcaaaaata	ccaccaactc	cccgaacttc	atgttcggac	tgggcgaact	ctccaccgga	120
gaaggcggac	aatactccgg	actgggtgga	gcaggaattg	ccttgcaaag	ctacaacttc	180
ctgaatacag	ccaatccggc	ctcacttacc	gccatcgagg	gacaacgttt	cctgatagac	240
gccggagtaa	tgggagctta	caaggatata	acacaaaccg	ggacgagcaa	tcactcgctg	300
gtaggtaacc	tgaacaacct	gagcatcggt	tgccgcatca	ctccacgctg	gtatggagcc	360
gtgttcatgg	caccggctcag	tagtgtaggc	tatgccatca	cactggatca	ggacatcacg	420
ggaaccggca	gttccaccgt	atcgtcactc	ttcgaaggcg	aaggcggatt	gtctaaaatg	480
ggaatcagta	cagcctatcg	gcttttcaag	ggattttctg	tcggcgctaa	cctttcctac	540
gtaaccggga	ccatcaaaca	gacagaaacc	cagggaagta	tcaatgtgga	agaaagctca	600
tacaagcatg	ccttttatgc	tgacttcggc	ttgcaataca	aattttcact	gagccggaat	660

aagtacctcg	tggcaggagc	tgtatacggg	tattcgcaag	acctggcaca	agacaatacc	720
ttgtcggtaa	gcagcacatc	gggcaacgaa	tcgattgacg	aaagccaacg	ccatgtgcgc	780
caatgcctcc	cccagtttgt	gggagcggga	cttgcataca	acagtccgca	ctggacgctg	840
acagttgaat	ataaatatac	ggattggagt	cgtatgaagt	catcaciaag	caacgtccgc	900
ttcgagaacc	aacaccgatt	gtcggcaggc	acagcctata	cggcaggcaa	tattttaccgg	960
aatccggtga	aactgttact	cggagcgggc	gtcagcaact	cttatatagt	cattcagaag	1020
aagaaagcaa	ccaactacta	tgtcagtga	ggaagcaact	tcactctgta	caacggcaac	1080
gttctctccc	tgggagtgaa	atacagcgac	cagcttcac	tgccaacgg	catgcaacgg	1140
gaacggggag	tcacactcct	tttcaatttt	accttttcgg	aacggaccta	ccgggcgaag	1200
atccaataa						1209

<210> 2179

<211> 1401

<212> DNA

<213> B.fragilis

<400> 2179

atcgttccga	ttagtcgac	ctttttttac	agggaaaata	aatcgtcttc	ttttgcggca	60
aaaatgatcc	gattcatgaa	acgaaaaaac	ttatccttgt	ttttatcac	tctttttata	120
tcactcctcg	cctcttgtcg	tgacgaactg	tcgacggcgg	gaggcaaag	ggtggaaagc	180
tccctgcgaa	ccatacaaac	cgatacctgt	accgtacgcc	tcagcactat	cctgagtgc	240
tctcttgcca	catcgggtga	caactgtctgc	cagataggaa	ccattgacga	tcccgtctgg	300
ggaaagatag	aggcagcttt	ctatgtcgaa	tatgacgtac	cgacagtttc	attcagtga	360
aatgccgact	acagattcga	ctccattacc	atccggttct	attcatcggg	taactatctg	420
ggagataccc	taagtccgca	acgtatctca	ctgcacagtc	tatcggagaa	tctgtcattg	480
gacgaagggt	atctgtacac	tacttcgaag	gtgtcctatc	actccactcc	cctggcttcc	540
tttactttca	ccccaccccc	gggcgaaaca	atccgggaac	atgaaatccg	cctccccgac	600
gaatggggag	tcgagtgggt	cgaacatttt	caggccgggt	cacgtgagat	ggagtcgcaa	660
gagtacttcc	gcgactatct	caaaggtatc	gcgtttatct	ccgaagaagg	gggaaattgt	720
gtcaacgggt	ttatggtgaa	cgactcaagc	ttatgcatca	ctctctatta	tcacagacg	780
gaaacggatg	ccacgggaact	gtccgcccgt	tttttaccca	acagcgatct	gaggttcaac	840
caggtcagtt	gtgaccgcag	ccggaccgca	ctctcctctt	tgcaaagtgg	actcaacaac	900
gggcttcctt	cagaaaaaatc	ggagcaccag	tcctatctgc	aagggttgac	cggcatgtat	960
atcaatattg	attttccatt	tctcaatgac	ctgcgtgccc	aaggcaggct	ggtgaccatc	1020
gaaagcgccc	tgtccgggt	atatccggta	aaaggaaact	atggcaaaca	gtatcccctt	1080
cccgaatcgc	tgacactgta	tacagccgat	gaaaacaatg	tgacggaaga	tgtagtgc	1140
gatatcttcc	gcagttccgt	acaaaccgga	agcctgggtg	cagatgaaat	gatgggagaa	1200
gatacctatt	actcttttca	tatcacctct	ttcctgcaaa	gcaatctggg	aacggtagga	1260
tacaaccgga	agattcttca	actgatgctc	ccggacaact	tattcttcac	taccctgaac	1320
ggagtcgtat	tcgggggatgc	cggacatccg	gacagcaatc	ccgtgaaact	aaccctactt	1380
tataaaacat	ataacccatg	a				1401

<210> 2180

<211> 264

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (27), (44), (46), (159)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2180

ggccgcgcg	cgaggcccat	cgctgcntgc	accatgggag	agananctgt	ggacgaggaa	60
gtacccgtac	ttttcgagta	tcctttaatg	aacgatgtca	tgcgattgt	aaaggaggag	120
gaaccggaga	ttctgtctca	gtcgtatgat	atggatgcna	gcatgacgct	tcgtatccgg	180
cagtcggcaa	tgccccgttt	aaggctcccg	ctggagaaag	tggagactgc	ccgcattaca	240
gatgaacagg	aaggaaatgg	atag				264

<210> 2181
 <211> 1260
 <212> DNA
 <213> B.fragilis

<400> 2181
 tctgcagttc ttatggcaac aataaaacca tttaaaggca tccgtcctcc gcaggacttg 60
 gtagaacagg tcgcttcacg tccgtatgac gtgctgaatt cagaagaggc tcgtgcagaa 120
 gctgccggga acgataaatc attgtaccac atcattaaac cggaaataga ctttcccgtc 180
 gggacagatg aacatgatga gaagggtgat gcgaaagcgg cagagaattt ccgtctgttc 240
 cgtgataaag gatggctggg gcaggatgac aaagagaatt attatatcta tgcccagacc 300
 atgaatggca agacacagta tgggctgggt gtgggtgctt acgtgcccga ttatatgaac 360
 ggtgtcatca aaaagcacga actcaccggg cgtgacaagg aagaagaccg catgaagcat 420
 gtccgtgtga acaatgccaa catcgaaccg gtgttctttg cttatcccga caatgcggtg 480
 ctcgatgcca ttatccgcaa gtatacggct caaaagccgg tatacgattt tattgctccc 540
 ggtgacggat tcggacacac tttctgggtg atcgacaaca gcgaagacat tgctgtcatc 600
 accaaggagt ttgctgccat gccggcgctt tataatcgccg acgggcatca tcgttcgggt 660
 gccgtgccc tggtaggggc cgaaaaggca aagcagaatc ctaatcatcg cggagacgaa 720
 gaatacaact atttcatggc cgtatgtttc cccgccaaac agttgactat tatcgattac 780
 aaccgggtgg tgaaagatct caatggcttg acgcctgccg aatttctgac cgcccttggg 840
 aagaattttg agatcgaa gaaggtaaa gagatttata aaccaaatgc gttgcataac 900
 tttgcgctct atctggatgg caaatggat agcctgacag ccaaaccggg tacttatgac 960
 gataatgatc ctataggtgt attggatgtg accatctctt ccaacctgat tctggacgaa 1020
 attctgggaa tcaaggatct gcgttcggat cgccggattg actttgtagg gggaatccgc 1080
 ggcttgggag aattgagcag acgggttgac agcggcgaaa tgaaagtggc tttggccctt 1140
 tatcctgttt caatgaagca attgatggat attgccgata caggaaacat tatgcctccg 1200
 aagactacct gggtcgaacc taaactgcgt tcggggctgg tgatacacga gctcgaataa 1260

<210> 2182
 <211> 636
 <212> DNA
 <213> B.fragilis

<400> 2182
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 aataaccggg taaccgtgca ggtgctcggg atctgttcgg cactggctgt aacggccaaa 120
 ctggaaccgg ctatcgtgat gggctcttcg gtaactgtga ttacggcttt ctcaaaccgtc 180
 gttatctctt tgctgcgtaa gacgattcct aaccgtatcc gtatcatcgt acagttgggtg 240
 gtagtacccg cattggtaac tatagtaagt gaggtgctga aagcgtttgc atacgatgta 300
 agcgtacagc tttcgggtata cgtaggctcg ttaggtctgc actgtatcct gatgggacgc 360
 ctggaagcgt ttgccatggc aaacggctccg tgggagtcac tcctcgacgg tgtaggtaat 420
 ggtctgggat atgccaagat cctgatcatc gtggctttct tccgcgagtt gctcggatcg 480
 ggcacattgc tcaacttccg tattatccct gagtcattct ataagatggg ttacatcaac 540
 aatggtttga tgttgatgcc gccgatggca ctgatcatct gtgcatgtat catctgggat 600
 cagcgcagcc gctgcaaaga actccaggaa aagtaa 636

<210> 2183
 <211> 495
 <212> DNA
 <213> B.fragilis

<400> 2183
 tttgtggcga attcgttttg tgttccggac tattcaaata tgtacgtttt tccgtatctt 60
 tgccgccgaa gtaattatta tcaggaaaca gatatgggac gaaaagaaga atacaaattg 120
 cagaacgaac aattcatgca gacattacgc accgaagcgg atgtacacga attgccatgc 180
 ggcataattat ataaggtttt ggaggaaggc accggcgag ccacgccccg ttccaacagt 240
 gtgggtgtcgg ttcattacaa gggcactctt atcaatggac gtgaatttga taattcctgg 300
 aagcggaaact gtcccgaagc ttttctgtct aacgaggtta tcgaaggatg gcagattgct 360
 ctgcaaaaga tgccgggtgg agatcactgg atcgtctaca tcccttataa tatgggctat 420

ggcacacgta ccagtggccc gattccggct ttttcaactt tgattttcga ggtacaatta 480
ctgggtatag cttga 495

<210> 2184
<211> 1290
<212> DNA
<213> B.fragilis

<400> 2184
agtaaaaaa ataaaaacaat gacgtcttta atattagcaa gtatcggagt cttccttgtg 60
gtgatcatcc tgcttgatcat tatactgctc gttgcgaaga gctatctttc tccttcggggc 120
gagggttacga ttacgatgaa tggagagcaa caactgaaaa catctcaggg tggtactctg 180
ctgggtacgt tgtctgccaa caatgtgttc ctttcacggt cttgtggtgg taagggttca 240
tgccggacagt gccgttgcca ggtgctcgaa ggcggtggcg agattttgcc taccgaaacc 300
ggtttcttct ctcgtaaaga acaggccgat cactggcgcc tcggatgcca ggtgaagggtg 360
aaacaggata tgtctatcaa gatcgacgag tctatcctgg gtgtgaaaga gtgggagtg 420
gaggtgatct cgaacaagaa cgtggctacg tttatcaaag agtttatcgt ggctctgcct 480
ccgggcgaac acatggactt tgtgccgggt tcgtatgccc agatcaagat tcctaccttc 540
tcgatggatt atgataagga catcgataag agcctgatcg gtgacgaata tcttccggca 600
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tattctatgg ccaactatcc ggctgagggg gaccgcatca tgctgactgt acgtatcgct 720
actcctcctt tcaaacccgaa agatcaggga ccgggcttta tggatgtgat gccgggtatc 780
gcttcttctt acatctttac gctgaagccg ggtgacaagg tgaccatgag tggaccttac 840
ggtgacttcc acccgattct ggattcgaag aacgaaatga tgtggatcgg tgggtggtgca 900
ggtatggctc cgttgcgctc ccagattatg cacttgacca agacgctgca tatcactgac 960
cgtacgatga actacttcta cgggtcccgt gcactgaacg aggtgttcta tctggaagac 1020
ttcctgtaga ttgagaaaaga cttcccgaac ttcaagttcc acctggcact cgaccgtccg 1080
gacctgtctg cagacgcagc cgggtgtgaag tatacggcag gtttcgtaca caacgtgatt 1140
tacgaaactt atctgaagaa ccatgaagct ccggaagaca tcgaatacta catgtgtggt 1200
cccggcccga tgagtaaagc tgtcgagaag atgctcgacg atctcggtgt tccgtctaag 1260
aacttgatgt tcgataactt cgggtggataa 1290

<210> 2185
<211> 456
<212> DNA
<213> B.fragilis

<400> 2185
aaaaagatag atagaatggc atttgaagca acaaaaagag agtggagcga gttgtacgtc 60
tttttccgtc tgctggcgga tggaaaagta tcgcttgga ctccgcaggc aaagaaaagaa 120
gatgaaaagt accggcccat tgcaatgatc cagcgtgaag agcatgatgg caccggcgt 180
tactatattg aagaagaggt catccggatg gaagggtgaga aggtggagaa aagtattccc 240
cgtgaggact ttgcaacagt ggccgacctg attctggacg cgattaaaaa ttcttcggcg 300
gatgaagtta cgtcacccga cggggtggag gagttcctgg acgaggcagg tatctttgat 360
ctggaagccc ggacggagga ccgtaccgac ttctcgattg ctttctggca tcctgaggct 420
ccgttggcgg gttgtcttcg ccacgggcca ggggag 456

<210> 2186
<211> 1416
<212> DNA
<213> B.fragilis

<400> 2186
tccttcggag atcatcataa aagaaactgc tttcgggttg tccggaagca gttttttttt 60
atctttgtgt cattattcaa aaatgtggaa aaaacaatga atggtttgaa ggatatactc 120
gaaaggttga aaatagaaca actcaatccg atgcaggaag cgtctgttga ggcatttgat 180
aaaggtggcg aagatttgat attactttcg cccacagggt cgggcaagac cctggccttt 240
ctgttgccgc tggtcggcag tctgaaggcc gacgtgaaag gagtgcaggc cgtggtgctg 300
gtgccatcac gtgagttggc attgcagata gagcaagtgt tcaaggcgat ggggacggaa 360

ttcaaggcga	tgagttgcta	tggcggacgt	ccggcgatgg	aagagcaccg	tacgatgaaa	420
ggaatgcagc	cggcggttat	catcggtacg	ccgggccgta	tgaatgacca	tctctccaag	480
cagaacttcg	atgcaagcac	agtgaagtctg	ttgggtgatcg	atgaatttga	taaatgcctg	540
gagtttgggt	ttcaggaaga	gatggcaacg	gttatcggaac	agttgcccga	cttgaaacgg	600
cgttttctga	cttcggcaac	agatgcccga	gagattccgc	aatttacagg	actgaaccgt	660
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gtggtttcgc	ctgctaaaga	taagatagaa	accctctata	agctgctttg	cacactggga	780
agcagttcga	gcattgtttt	ctgtaaccac	agggatgcgg	tggaccgtgt	gagtgcctta	840
ctaacggaaa	aaggagtctt	caatgaacgc	tttcatggag	gtatggagca	accggatcgg	900
gaacgggcac	tgtataagtt	ccgtaatggc	agctgtccgg	tgctgggtgc	tacggacctg	960
gctgcccgcg	gacttgatat	cccggaaggtg	gagcatatca	tccattatca	tttgccgggtg	1020
aacgaagaag	cctttaccga	ccgcaatggc	cgtactgccc	gttgggatgc	gacgggtact	1080
tcttatctga	tactgaatcc	ggaggaacat	gtgccggatt	atataccttc	ggagcttgag	1140
atcttcgact	tgccggagaa	tacaccccgt	ccggctaaac	ctcagtgggt	gactatttat	1200
ataggtaaag	ggaagaagga	caaattgagc	aagatcgaca	tagccgggtt	cctttataaa	1260
aaaggaaatc	tggcacgtga	ggatgtcgga	gcaatcgacg	tgaagatca	ttatgccttt	1320
gttgccgtgc	ggcgcccaa	gatgaagcaa	ttgctgactc	tgatccgtgg	cgagaagatc	1380
aaagggatga	aaacggtgat	cgaggagggc	gattaa			1416

<210> 2187

<211> 552

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (421), (422), (491), (508), (510)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2187

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ggtacaatta	ctgggtatag	cttgaaccat	caaaaaaaga	ttccggatat	catgacagaa	120
gataacctata	agaccatcac	tgaagtctcg	gagggaaacat	ataccgagaa	acgaagcaaa	180
tttattgccca	tcgctctccc	ggttcgtacc	ttggaagaga	ttaaagtgca	tctggaggcg	240
taccagaaga	aatactatga	tgcccggccac	gtctgctatg	cctatatgct	gggacacgag	300
cggaagaatt	ttcgtgccaa	cgataacgga	gagccgtcgg	gtactgccgg	caaaccgatt	360
ctgggacaga	tcaactcgac	cgaattgacg	gatatactga	ttatgtgggt	tcgttattcg	420
nnagggatca	agttgggcac	tagtggactg	attgtggcct	atagggccgc	cgcgcgaggc	480
ccatcgctgc	ntgcaccatg	ggagaganan	ctgtggacga	ggaagtaccc	gtacttttcg	540
agtatccttt	aa					552

<210> 2188

<211> 645

<212> DNA

<213> B.fragilis

<400> 2188

gaaagtaaaa	gaaaaattat	ggaacaatta	ttaagtttat	tcgtccgctc	catctttgtg	60
gacaacatga	tattcgctt	cttcctgggt	atgtgttcac	atctggctgt	gtcgaagaat	120
gtgaaaactg	ctgtaggact	gggtatcgcc	gtaactttcg	tattggtgg	tacgttgccg	180
gtcaactact	tgcttcaaac	taaggtgctg	gctgccaatg	cgatcattga	aggtgttgac	240
ctcagcttcc	tgagttttat	tctctttatt	ggcgtatgg	ccggattcgg	ccaattggta	300
gaaatggtgg	tggaaacgctt	cagcccttcg	ctctacgctt	cactgggtat	cttccttccg	360
ctgatcgccg	ttaactgtgc	catcatgggt	gcttactgt	tcatgcagca	gagaatcacg	420
atggatccgt	cgaacccgca	ggctattacc	ggcgtgggca	gtgctgtagt	atacgactc	480
ggttccggta	ttggctgggt	gctggctatc	gtcggctctg	ccgctatccg	cgaaaagatg	540
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 <213> B.fragilis

<220>
 <221> unsure
 <222> (1), (2)
 <223> Identity of nucleotide sequences at the above locations are unknown.

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 gagaaaaacg gtaagggtgac agaccctgct tatcagggttg acgggtatttc ggggtggtaca 180
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 tcagggtcttt ctgtgttgga agtcagccat cgtggcaagg attttcaggc agttatggat 180
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 aatctggctc cctccggcgt tacattcgtc atagtaaaaag acgatgcggg aggcaagggtg 660
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 aacacacctc ccgtattgcc tatctattcc gccatgcaga ctttgcgctg gatcaaggct 780
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 gctacggata aaggaatgtc cggcatcaaa gggcaccgct cgggtgggtgg cttccgtgca 1020
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 aagaaagaaa tagaaggagc cggatttgaa ttggctctgc ttgagaaata tacagataaa 180
 gcccaactgc ttgacgcagt gaaagatgcg aatgccatta ttatccgtag tgacatcatc 240
 gacgccgagg tgctcgatgc agcgaaagaa ttgaaaatag tagttcgtgc cgggtgccgga 300
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 aacttctata acggaacatc ggggtacggag ttgatgggaa agaaactggg tatccacgca 480
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gttaatacgg	cccgcaaaga	agtgatcaat	gaagacgaat	tgatccagtt	gatggaggaa	780
cggccggact	ttaaatacat	cacagacatc	atgcctgcgg	ccaatacgaa	gttcgccgaa	840
ctctttgccg	gacgttattt	ctcgactccg	aagaagatgg	gagcacagac	ggccgaggcg	900
aatatcaatg	ccggtattgc	agctgcacgg	cagattgtgg	gtttcctgaa	agagggttgt	960
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<210> 2192

<211> 333

<212> DNA

<213> B. fragilis

<400> 2192

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tttgggctca	agaaaacgag	tcgcataaag	gcttttgtct	tcagattcat	ctccgtacct	240
gccaaagtga	tcatgactgc	aaggcaatac	gtgctgaata	tctacacaga	gaaccgagct	300
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<210> 2193

<211> 261

<212> DNA

<213> B. fragilis

<400> 2193

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aacttgaaaa	agaaatccgg	actgaaggac	aaggatttgg	gggcagctct	gggttggttg	180
gccagagaag	ataagattga	gtttgaacag	gaagaggaag	aactctatgt	ttacctctgt	240
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<210> 2194

<211> 186

<212> DNA

<213> B. fragilis

<400> 2194

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gcccttcccg	gtagtccggc	aacttatcct	gacacgttcc	tatccgttcc	tagccaaaac	180
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<210> 2195

<211> 811

<212> DNA

<213> B. fragilis

<400> 2195

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agatgcagca	gtatcttcgg	atatcagttc	agcgagatag	tccgttcgct	gatgagcgtt	180
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tatcatccta	cccttcgtac	atgcagctct	gataccatcc	tcagagccat	caaggaactg	300
acacaggaaa	acatctccta	tacttcgcag	caaggcaaga	cctatgatgt	caatactgca	360
gacaaaactca	acacattgct	tataaacgct	ttggtttcta	caggcgagtt	gaaggaaatt	420
gaggaatacg	atgttgactt	tgaccatcag	ttccttgaaa	cggagaagta	tgatgcaaaa	480
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600
660
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780
811

<400> 2196

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 gaaacaaata agaagcatac ggaaaatgcg ttgaaacagg ccctccaaag gaggcagccc 180
 ggcagattgc cgtccaattt taattatcgg atgatggagc agatccgtct ggaagcggaa 240
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 ttgttgggag tgggagtata tacgcttggt ttcaaattgg aattcaattt caaggagtac 360
 ttgtccggta tggatttttc tcatgctgat tcttcctgtg tggctttcta tagctatatt 420
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 tcctga 486

<210> 2201
 <211> 597
 <212> DNA
 <213> B.fragilis

<400> 2201
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 accgaattag tacagttggg tgggaaacta ttgcgcggtt gtgcctcatg ttatacctgt 180
 ttcaagacaa aggacgggaa atgtgcgatt aagaccgatc caatgaatga gttcatccaa 240
 aaggcccagg aagcagacgg tattattctg gcttcgccta cttattacgg cagtgtgagt 300
 gccgaaatga aggcatttat ggatcgggtg ggactgacca cgatcgggtca gggacgtaca 360
 ctgacacgta aggtgggggc ggctgtaatt agtgtccgta ggggcgggtg tgtaacagtg 420
 tatgatgaac tgaaccgttt tatgctcgga agcggaaatga ttgttcccgg atctacctac 480
 tggaatttcg gtattggtga aatgccggga gaggtttttg atgacgcaga agggttgaga 540
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<210> 2202
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 <212> DNA
 <213> B.fragilis

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 gaagctgtcc ggaaaattaa agaaacgttt gtaccgattt gtgagccact gtttgttttc 180
 aatggaacag gcagcaatgt cattgccctg caattgatga ctgcctctta caactctatc 240
 ctttgtgccg aaactgcgca catttatgtg gatgaatgtg gctctccggt gaagatgacc 300
 ggttgtcaga tccgtcctat cgcactccc gacggaaaac tgactccgca actgatcaca 360
 ccctatctgc atggctttgc cgaccagcat cattcccagc cgggggcat ttatctttcg 420
 gaatgtacgg aactgggtac tatttataca cccgacgaat tgaaagccat cacttcggtg 480
 gcccatcaat acggtatgtg ggtacatatg gacggtgcgc gcacgcgcaa tgcttggtgt 540
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 ggtggaacca agaacgggct gatgatggga gagtgtgtga tcgtattcga tgattcggtg 660
 aagtccgaag cgcgtttcat acgcaagcaa tcggctcagt tggcatccaa aatgcgttat 720
 ctatcctgtc agttcactgc ctatctgaca gacgaactgt ggctgaaaaa cgcaaccat 780
 gccaatgcta tggcaagcgt tcttgccgat gccctggaac aggttcccgg cgtacgtttc 840
 actcagaagg tggaaagcaa ccagttgttc ctgactatgc cccgtgccga aacagatcgc 900
 atgctgcaaa cttattttct ctatttctgg aatgaggaag ccgacgaaat acgtctggtc 960
 acttcatttg atacaacgga agaagatatc gatacgttta tccgtatact gaaaaattag 1020

<210> 2203

<211> 2211
 <212> DNA
 <213> B.fragilis

<400> 2203

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 <213> B.fragilis

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 <212> DNA
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213

<400> 2210

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1260
1296

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<210> 2212
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 <212> DNA
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<210> 2217

<211> 2052

<212> DNA

<213> B.fragilis

<400> 2217

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<210> 2218

<211> 1605

<212> DNA

<213> B.fragilis

<400> 2218

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1605

<210> 2219

<211> 1068

<212> DNA

<213> B.fragilis

<400> 2219

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aaggaaacacg	atatcacagt	gcttcagacc	ggacgttata	acgagattct	tgaaaaacga	960
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<210> 2220

<211> 903

<212> DNA

<213> B.fragilis

<400> 2220

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<210> 2221

<211> 1566

<212> DNA

<213> B.fragilis

<400> 2221

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<210> 2222

<211> 192

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (169)

<223> Identity of nucleotide sequences at the above locations are unknown.

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<210> 2223

<211> 942

<212> DNA

<213> B.fragilis

<400> 2223

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<400> 2225

<400> 2226

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<210> 2227

<211> 1482

<212> DNA

<213> B. fragilis

<400> 2227

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<210> 2228

<211> 600

<212> DNA

<213> B.fragilis

<400> 2228

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gtgaaggata	tagatttctt	ctcactttgc	gaacaccaca	tgttgccttt	ctatggcaaa	300
gctcatgtag	cttatatacc	taacggatat	atcacgggat	taagtataat	agcccggtgtg	360
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<210> 2229

<211> 861

<212> DNA

<213> B.fragilis

<400> 2229

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<210> 2230

<211> 1629

<212> DNA

<213> B.fragilis

<400> 2230

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atacgacatg	ctaataatth	tctggagaat	tatgagaaag	ctgaggtgag	tgaggccaca	360
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atgggaccgc	gtgtacccaa	agagcaagtg	attgcaggca	tcatagaaga	cctggagttt	540
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aagaacgggt	tcataattgg	acagaatgcc	gaaagccgta	cgtttgatag	ttcgaaagat	1560
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<210> 2231

<211> 402

<212> DNA

<213> B.fragilis

<400> 2231

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<210> 2232

<211> 606

<212> DNA

<213> B.fragilis

<400> 2232

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gaccgtggtc	tggcaagaca	gttgccccca	cctcctgaaa	aggatcaggt	tgataatgac	180
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aattaa						606

<210> 2233
 <211> 552
 <212> DNA
 <213> B.fragilis

<400> 2233

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<210> 2234
 <211> 1218
 <212> DNA
 <213> B.fragilis

<400> 2234

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<210> 2235
 <211> 876
 <212> DNA
 <213> B.fragilis

<400> 2235

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<210> 2236

<211> 267

<212> DNA

<213> B.fragilis

<400> 2236

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<210> 2237

<211> 399

<212> DNA

<213> B.fragilis

<400> 2237

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<210> 2238

<211> 816

<212> DNA

<213> B.fragilis

<400> 2238

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<210> 2239

<211> 573

<212> DNA

<213> B.fragilis

<400> 2239

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<210> 2240

<211> 252

<212> DNA

<213> B.fragilis

<400> 2240

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ctgagaaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaaattt	gactccatgc	180
tttcacccgt	tatcgactca	acactgggtc	agagatgcag	cagtatcttc	ggatatcagt	240
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<210> 2241

<211> 1581

<212> DNA

<213> B.fragilis

<400> 2241

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gttttttcctt	tcctgatgaa	aggaaagagc	aagatgccgg	tactcattct	tttgatggga	180
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tcggactatt	atacaccggg	atggttgctg	actccttgct	tttggatagg	aactctttta	300
ttttttgccg	gaatggggat	caactggcat	tcggattcag	tcacccgtca	tctgctgct	360
cccggagata	cccgctcatta	ccttcctcaa	agaggcatgt	atcggtatgt	gacctctgcc	420
aattattttg	gtgaaattgt	agagtgggta	ggttgggcta	ttctcacttg	gtctttgtcc	480
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<210> 2242
 <211> 846
 <212> DNA
 <213> B.fragilis

<400> 2242
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 gctgctcctg cagcagacaa accggttgct gatgctgtag ctgaggctgc tgaagcttct 180
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 gtagtaggta tggttatggc gttcgataag attcagcagc aggggtgatat ctctccgaca 660
 gttgttgccg gtggtatgaa ggttgccctg attactacta tcttcgggtt ggttgtagct 720
 ttgatccttc aggtattcta taactacatc cttgctaaaa tcgaagctct tacaagcgaa 780
 atggaagatt cttctatctc tttgcttgac atggtaatca aatataactt gaaatacaaa 840
 aaataa 846

<210> 2243
 <211> 468
 <212> DNA
 <213> B.fragilis

<400> 2243
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 gtttcattga aggttgagtt taagattccg caaggtagct agttggaaaa gcttgaaaaa 180
 aaatcttttg ttacgtttat ctacgtaggt aaaccgacag cagaatttcg taaaaaactg 240
 gggctctgaaa gccgtatcca gttgaatgat gcttatgctg aagttgacga gattcaggct 300
 tacgtgacta acgagcgctc aagtatgaaa gaggaagacc aaccctttat gactgtgtct 360
 ttgaaaattg accaggatac taagatgggt atcggtaccg atattaaaca ggctcttcgt 420
 caagcttatg cactgaaaat taactattct gcgagagctc gcgaataa 468

<210> 2244
 <211> 720
 <212> DNA
 <213> B.fragilis

<400> 2244
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 gcagacctcg aaggtaaaga aaccagtggt ctgctgatcg gttacgtggt ggtgctcgcc 120
 tttatattcg ttgctgtcga atggacggag cgtgatataa agatcgatac aagccaggcg 180
 gtagcccgaga ttgagtttga agaggaaatg attcctatta cacaacagga agaaaaaccg 240
 gccccacctc ctgtcgaggt tcccaaacag gctgaaatcc tgaagattgt tgatgacgag 300
 gctgatgtac aagaaacagc cattgcttca acagaggata ccggacagaa agtggaagta 360
 aaatatgtac cggttgaggt aaaagaagaa gaaccctcgg aacaagagat ttttgaagta 420
 gtagaaaaatg cacctgaatt cccgggtggt atgctgtgct gtctccagtt cctgtacaag 480
 aatatcaaat atccgccgat cgctcaggaa aacggtactc agggacaggt tgctcctccag 540
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 taccttgata aagaagctct tcgtgtggtt aagaccatgc ctaagtggaa gccgggtatg 660
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<210> 2245
 <211> 873
 <212> DNA

<213> B.fragilis

<400> 2245

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gctgaaacca	aatgccggga	gttggtgaaa	gaaacgggaa	atgaaaagat	agaggtatgg	180
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aagactcctg	tcgctttgtt	gatgaataac	gccggggacca	tggaaaccgg	attgcacatt	300
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tatacccgtc	ctgaccgaag	ggcacagcta	tgggaagaga	cggaacggat	tttgtcggaa	840
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<210> 2246

<211> 210

<212> DNA

<213> B.fragilis

<400> 2246

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aattggagag	atgctcgagt	ggttgaagag	gcacgcctgg	aaagcgtgta	tacgccaaaa	120
gtgtatcgcg	ggttcgaatc	ccgctctctc	cgcaggaagt	ataaacaaga	gacgataagt	180
aaatacaata	ataataattt	aattaattaa				210

<210> 2247

<211> 477

<212> DNA

<213> B.fragilis

<400> 2247

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tacgacatgg	ataatcccgc	aaacacagat	gccttgctgt	acttgatgta	tgggtctgtt	180
ggcattgctg	tagttgcaac	tgtggttgct	gctatcttcc	agttcgggtc	tgctttgaaa	240
gataatccta	aaggtgctat	cagatcattg	ctcggactta	ttcttctggt	tcttgatattg	300
gtcgtagcat	ggtctatggg	tagtggtgaa	acactgacca	ttcaaggata	tgagggaaact	360
gataatgttc	ctttctggtt	aaaactgact	gatatgttcc	tttatagtat	ctacttctta	420
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<210> 2248

<211> 735

<212> DNA

<213> B.fragilis

<400> 2248

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aggatacggg	cgctgaaaac	agcggtcgtg	aagggcgata	tgtgtgatgt	ctatgatttg	120
cctgtttcac	tcaagacatt	gggagaagcc	cgtatatttc	tgtctaaatt	tgaaacggcg	180
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gtgaaagtgc	attatgatat	attcatggaa	ggatatgaaa	aacagaaaag	ccttcagtct	540
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ctggatatct	ggaatcaggt	ggaagccaaa	ttccaggatg	tatcgcccaa	tgagaaacgc	660
ttggaaaaat	gtcgtgatta	tggtctgatt	tattattatc	ggaccggaga	aaaacagaat	720
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<210> 2249

<211> 1044

<212> DNA

<213> B.fragilis

<400> 2249

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atccggttta	cacgtactcc	ggcaggtttg	tatgacccta	ttaaataatgt	tctttccatg	180
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cttgaaatth	gtgaggggca	gcaaatggat	atgaattttg	agtcctcgta	ggatgtaaag	540
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attggcatca	aggctgtttg	cgaaaacaag	atgctgtagt	attacactcg	tgcgatgaca	960
agcctgggcg	ccgtgtctgt	cattgaggat	aagaagagtg	agctgaaaaa	gttgatgaag	1020
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<210> 2250

<211> 1374

<212> DNA

<213> B.fragilis

<400> 2250

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1374

<210> 2251

<211> 483

<212> DNA

<213> B. fragilis

<400> 2251

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gacaacgccc	gcattccggt	cctggaagt	gcaagagcgt	gcaatgtttc	gggtgcggct	120
attcatcaac	gcatacagaa	gttgactaat	ctgggtatat	tgaaagggtc	ggagtatgtc	180
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cttttgagt	tgattcatga	taaactccag	ccgttgggat	tggctcgac	cgagacgctg	420
atttcattcc	atgaagccat	caagcggcag	atgccgatta	tggtagatac	ggacgaggat	480
taa						483

<210> 2252

<211> 954

<212> DNA

<213> B. fragilis

<400> 2252

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gactctttac	taccgggtgt	caattctatc	ggtgtatgcg	gggctacatc	gactcctaaa	900
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<210> 2253

<211> 837

<212> DNA

<213> B. fragilis

<400> 2253

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aagggagtaa	acctgctgca	taacataatg	aaaaagataa	caattgcaat	tgatggcttt	180
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gaagtcagcc cattgaagaa agccgacgat gctttgctat tagacaacag ccatctcacc 780
atcgccgagc aaaaagagtg gctgatggca gaatatcaga aagcgataaa agcataa 837

<210> 2254

<211> 996

<212> DNA

<213> B.fragilis

<400> 2254

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caagtaaaaag	gtatatatag	aggatacaga	ggcttggtga	caggagagat	caaggagttt	180
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cccgaattca	gtacagaagt	cgaccaattg	gaagaattta	taaagagcgg	tttccgtaaa	660
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cacttgcagc	gcgggggtag	tccgacggca	cacgaccgta	ttttggccag	ccgtctaggc	840
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gacgagattg	tatacgttcc	gttcagtaaa	gccatcaaga	atgataaacc	tgtcaagaga	960
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<210> 2255

<211> 780

<212> DNA

<213> B.fragilis

<400> 2255

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agtacgacga	ttgaacccat	gctgtcggtt	tgtgatacct	atcgggactt	ttgctttccg	180
atgatcggat	tgcaccctac	ctccgtgaac	gagtcctatg	aaaaagagct	tgaaatcggt	240
gccgcaaate	tggaaacttc	cggccgggtt	gttgcgtgtg	gcgagattgg	aattgatctt	300
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gcccttcatt	atcaattgcc	catagtgtt	cattgccgcg	aagcttttga	ttatatatat	420
aagggtattgc	aaccttataa	aaatagtggg	ctgaccggaa	tctttcatag	ttttacggga	480
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atcgtattgg	aaaccgattc	gccttacctc	actccgggtc	ctaatecgtg	aaagagaaat	660
gagagtgcga	atgtgaaaga	tacattaata	aaagttgccg	aaatatataa	cgaagatccg	720
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<210> 2256

<211> 186

<212> DNA

<213> B.fragilis

<400> 2256

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tttactgttc	ttgggtgcga	tggattacgc	aggggaggat	tattgccagg	tggtggattg	180
aaatga						186

<210> 2257

<211> 642
 <212> DNA
 <213> B.fragilis

<400> 2257
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 gaccgctatc tgactaccag ccgggtaaaa gcaataaacg acgcattggc aggcattccct 180
 tatgaacata tcattatctt agccaatacg gaacaatacg gtggggggcg catctacaat 240
 gctttcacac tgaccaccgc acaccatccc aatttcctgc cggtagtggt acatgagttc 300
 ggtcatagtt ttggtggctt ggccgacgaa ttttttatg atgaagacgt catgaacgga 360
 ctctatcctc tcaacattga accatgggag cagaacatta ccaccgcgt caactttgcc 420
 tctaaatggg aagatatgct caccaaagct actcctgttc cgactccggg agcaaataag 480
 gccaaatatc ccataggcgt atacgaagga ggaggctact cagccaaagg tttttatcgc 540
 ccggcattcg actgccgcat gcgtaccaac gaatatccta ccttctgtcc ggtttgcaa 600
 agagctatcc aacggatcat agagttttac acaggtaaata aa 642

<210> 2258
 <211> 1053
 <212> DNA
 <213> B.fragilis

<400> 2258
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 tgggagttca atccggaact tttcagtggc attcgtttct cttggcgtct ggtaggcgga 180
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 tttattactg accgggaatt aacttggcgt caggcattcc gggtaaataat gctttgtgaa 300
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 aataaagaag gcattaatgc cggacgcagt acagctttga ctatctctg cctgtttctg 420
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 gtaaaacggt tggtgtcac tttttccgc ttgccactgc ttcgccgttg gcacaaggcc 660
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 gtcaatgctt tgctgatagc ctttactact tcgggtagcc aactgttggc ttttgtgcgt 840
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 gaatatatgt ttcgtgaata ttatgccgat tttttgatg tggcaggat ggctttggtc 960
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<210> 2259
 <211> 459
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
 <222> (374), (432)
 <223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2259
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 ccaatttttca tgggttacta ccatacctta tataataagg tgtcatggac tgattatttc 180
 tctgtaatgg gacacgggct tccgttagat ttttacttg ccggatatct gactgccatt 240
 cccggactat tgctgatcgc atcgggtctgg atacagccgg cggttattcg ccagatacgc 300
 cggggatatt tcatgataat cgccattctg ctttctgca tctttatcgg tgacctggac 360

tgtatgaata ctgnggattc cgcttggatg ccactccgct gttctacctc ttctcctcgc 420
 ccaaagatgc tntggccagt gtcagcattt gggctcgtga 459

<210> 2260
 <211> 189
 <212> DNA
 <213> B.fragilis

<400> 2260
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 tacatcggac aagaaacaat ggcgggggat caacaaactc taaaaccgga cactactctt 120
 gtccgatctt gtacagattg ttcatttccg aacagttctt tctcgaatca ttacactaat 180
 ttacaatga 189

<210> 2261
 <211> 2118
 <212> DNA
 <213> B.fragilis

<400> 2261
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 tatgcttttga tgtttgtccc tctttccgcc caaactccac ataccatcag cggtatcggt 180
 aaagacaggg catcagttcc catttcggga gtcaatatcc gagtagaagg gcagaaatgg 240
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 gaaatcactc tcaaagaatc tcaaagcctg ttgccgaaa taacagttac ttccacatta 420
 aaaaacagca tgaaatttgt tttcgctccg tccgacctgg agctgatcaa agacatgctc 480
 taccttaaaa cgagatataa aatcccctcc aaacgctttc aaagtgattc ccgggtcatc 540
 attcaaccca ttctgtcaaa caatagccgg ggaactcaaa aaaactttct tccatttgtg 600
 tacgatggca agaattatga tattttactc cggcgaggaa acgtctgcgg cgaccgggct 660
 gaaaaagaat attattcacg ctttgcacag gtcatagacc ctgactccat ttgtaaccag 720
 acgttgactt atgccgactc gtgtacggtg gacgacatca acgacctata tacaaccgaa 780
 gtacgcataa aaataagcac tttctgccag gatgaatatc gggatacgat tcgcatcacc 840
 aacggcatta tctaccgat gcggttcttt aactataatc tgagtgcaat ggacttggac 900
 aacagctaca tccccagca gactccgctc aacttcaatg aaaaaggaga aatgcatctt 960
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 aacaggctga ataacgtcaa tgaagccgtc attcacctac gaaatgccat cactcaaaaa 2040
 ccatctttaa aggaaatagc acaaaaagat ggagatgtgt tagatttact ggatttatta 2100
 gatttagata agaaataa 2118

<210> 2262
 <211> 1137

<212> DNA

<213> B.fragilis

<400> 2262

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tgcgagccac	tcaatgaaac	tcccagagacg	cccgctttca	gtctcaacct	gacatctcct	120
gacggagagc	cctccaccga	taacgacaat	gcggtattgc	aaaaactggg	ataccatctt	180
tttattttcc	gttccaatac	tgccaatcct	tcccccgata	atgacggctc	caattacact	240
ttttggaggc	ataccggaga	tctcaccccta	aagcaaatec	gggaatacac	tttatccatc	300
cccagtgaat	ctacagatcg	gtcttatctg	ctgctagtgc	acgccacccc	taaagaaaag	360
ccggaatctg	agatcataag	caaagaagga	atgactttca	gtgagtcaga	aatcagcatg	420
ataaaagaaa	acgataacaa	ctatgtcccg	ctttcaaaaag	ataactatta	cgccattcaa	480
caactcactc	ccgaggatat	agcgcaaggg	aaaacgtcta	tcgaattcaa	attaaagcgg	540
gctgtgggag	aattggtatt	tgacgtaatg	aaatgcatg	aaaaaagcca	caaccgatt	600
gacattgaca	cagaatgttc	ttcaacttta	gacagagtgt	ttcggatcga	tatagaaatc	660
aatggcgtga	tccccaaaag	ttcattaacc	aacgaaacca	agaatccga	acggatcaac	720
atctgttttt	ctaaagaaat	agtttctaaa	agcgactata	cccctgattt	tgcaacaac	780
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gaagaagcaa	cggatccgga	agaaggatc	aagaccatac	tcaacttttc	gtactacgat	960
accactcctc	ttccgaacgg	gagctatagc	acgaaaaaac	ttattctttc	tcttaccgac	1020
aagccattga	cgattgtaaa	agaccattat	acagtgacca	atatacgttt	gcggaacaac	1080
cgtatcatag	atctttccgt	ttcgggtgac	ttcgggaatag	attggaaatg	ggattga	1137

<210> 2263

<211> 210

<212> DNA

<213> B.fragilis

<400> 2263

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gaattacagc	aaaaaagtcg	tttcgccatg	ataggaacat	tgatgaccat	tgctagctcg	120
gtgtttttgt	tttatgtagg	cagttcgttg	gtcaatacta	ctaagaaata	taaagagctg	180
gccattgaga	tagcttgtat	aaacaagtag				210

<210> 2264

<211> 405

<212> DNA

<213> B.fragilis

<400> 2264

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gccggtgtac	gtggggaaaa	gtcaggtttg	gggcggatga	aagtctggct	ttccaaccca	120
aacagaaggt	tgcttcgacc	cggacagacg	ccatcttcg	ataaagatga	agctttgttc	180
tgctatatta	caatatatgt	tacgggaata	tctcctattg	taattggcag	ctcctctatt	240
cggtaataaa	aacataaaaa	tgctattgac	aaaattcagc	tgggggtttc	gtttttgcta	300
tacgaactga	cggatcaggg	caacaaaatc	ttttccgtac	tttttctttt	tatattcacc	360
aatcccgttg	atgttaccga	aggcttcgac	tgctgtggga	cgtga		405

<210> 2265

<211> 522

<212> DNA

<213> B.fragilis

<400> 2265

aactattttc	tggtttttatc	gactaatgga	ttaaaagaga	caaaaaacat	ggaaatagaa	60
aaagattttta	tagacctact	gactgaacac	aaagcgctga	tatataaagt	ctgttttatg	120
tatgcctcca	atcaggaaga	tttgaacgat	ctttatcagg	aagtagtagt	caacttatgg	180
tgttcttatac	ctaaattcag	gtatgaaagt	aaattgtcta	cctggatata	tcgcgtagct	240

ttaaatactt	gtatctcgga	tttacggaaa	aagaaaatac	tggattatgt	accattgagc	300
gtggatatcg	gagtgatga	tgactgtttg	cgcaatgatt	ctttaaaaga	gatgtatcag	360
ttgatatgtc	aactcgaccg	atatgaacgg	atgcttgtcc	tgctatggct	ggatgaaaat	420
agttatgacg	aaatagcatc	cattaccgga	agtaaccgaa	atacagtagc	tgtcaagttg	480
catcggatca	aagataaatt	aaaaaagatg	tcgaaccaat	ag		522

<210> 2266

<211> 1698

<212> DNA

<213> B.fragilis

<400> 2266

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cgctggcact	tgccctcctc	ccttctcggt	ttctgctgtt	ctttcttcat	taacaatgga	120
gctatctttg	cagatatcat	ggagtcgaga	aatatcatca	ctgcacgtga	gatggtatac	180
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ctaaccgaca	acogaacctt	tgccctggta	tcttcgctcg	tcttatgtac	ttcgtataac	420
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gagatcataa	aagcgctgcc	gttcgtcctt	atctcacaaa	agccggcgga	actgctgatt	1560
cgggattcta	tccgaaagga	cctgaacctc	cgttttattg	attgttatga	taacaaccgc	1620
tgggcaaaag	gacataaaaag	atatgacagc	gtatttatca	gcaatgtgac	aattgtagaa	1680
ccgataaagg	aacaatag					1698

<210> 2267

<211> 258

<212> DNA

<213> B.fragilis

<400> 2267

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aggtataagg	atgaagatac	cggttcagac	ggcgtaaact	catttccgaa	acttgagcta	180
tcttattcag	cgggtgtctg	tcttttctta	ttaaagcaag	caaaaaggac	aattatcaac	240
ttgaaaataa	agaataaa					258

<210> 2268

<211> 1656

<212> DNA

<213> B.fragilis

<400> 2268

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cgtaatgtga	ttattgaaaa	gaaatttcggt	gctcctcaca	ttactaaaga	tgggtgtgact	180
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<210> 2269

<211> 1017

<212> DNA

<213> B. fragilis

<400> 2269

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gagttgtccg	gttatagtcg	taaatacggc	cttcaagaga	atatagttgc	taaactggag	180
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caactggccg	gacgtccgga	atttaaagga	aaaatgattg	tgactctgtt	gccgatgacc	960
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<210> 2270

<211> 192

<212> DNA

<213> B. fragilis

<400> 2270

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gtttatgatt	acgcagacaa	agatacgaca	atcaataaca	aaagtcaagt	tttaggactc	120
ttatttttcc	ggattatttg	cattgttgca	tctgttcgtg	aacatcggca	ggaggcactc	180
ccagcgaaat	ag					192

<210> 2271

<211> 546

<212> DNA

<213> B.fragilis

<400> 2271

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ctttcccaag	agatagcatt	aaaaacaaat	gtcctctcct	gggcaaccac	gaccataaac	120
ctgggagcag	aattcaaaat	atcacccgca	ctgacagccg	gggcagatat	catgtataaa	180
ggatggagtt	ttttatccga	taaccgcaaa	atggggcggt	tcttagttca	acccgaagct	240
aagtattggt	tttgcattcc	tttctataag	cactttatgg	gccttcatgc	ccactatgga	300
caatataacg	gtggattcag	taaatatcgt	tatcagggag	acttgtacgg	tatcggttta	360
tcttatggtt	accaatggat	atggaaaaga	cgatggaaca	ttgaagtatc	tgcggaataa	420
ggatagcat	ctatgaacta	cgataaatat	gaacgtccca	aatgcggact	attccttggg	480
aaagaccatt	ccaactat	tggttaacc	aaactcggag	tcagcctgat	ctatatactc	540
aaatag						546

<210> 2272

<211> 813

<212> DNA

<213> B.fragilis

<400> 2272

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tttgaatgta	cggatggaaa	gccatgggga	gaatctcctt	tgacggtaag	tctgacgaa	180
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aacagagacc	gtcgtctgta	cgagtctgtc	aaccattcta	tgatggccaa	ttttgtcgat	300
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ttcagcgctc	tcaaataatg	ccaacctacg	gatgtgacac	cgggatacag	tactgtttcg	420
gatgcagata	tcgttgtact	gcgttacgct	catgtattgt	tgatgatagc	cgaagccgaa	480
aacgaagcac	acggagctac	cacaacagcc	ttgaatgcta	ttaatgaagt	aaggacacgt	540
tcgggacaac	cggccatcga	agccggtatc	tcacaagacg	atcttcgtga	acgtatccgg	600
aacgaatggc	gtattgaaac	ttgttttgaa	gggctgcgtt	acttccagtt	aaaacgatgg	660
aagttgatgg	ataaacgggt	gaacggggta	gaagatcctg	cttatccggg	atacatcaag	720
gtgtataaac	ctgcatttga	atttttcccg	attccacagt	ccgaaataga	taaagcgggc	780
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<210> 2273

<211> 699

<212> DNA

<213> B.fragilis

<400> 2273

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ggaaatggaa	tgacaggacg	cgacgtagct	attaaaatgt	tacaagataa	cggaatatac	180
gatgttcagg	tgactcatat	tcccggacag	ttgaccgatc	attataatcc	tgccaataag	240
acagtgaacc	tgagtgaagg	agtatatgac	agtaacagta	tcatggccgc	tgccgtggct	300
gctcacgagt	gtggacatgc	ggtgcagcat	gcgcgggctt	atgcaccctt	gacactgcgc	360
agcaagctgg	taccgggtcgt	ttcgttcgct	tctcagtggg	tgacatgggt	gttgcttgct	420
ggtattttgc	tgtttagagtc	tttccctcag	tctgtgtttg	ccggcattat	cttggttgct	480
atgactacgt	tattcagttt	tatcacccct	ccgggtggaga	tcgatgcaag	taagcgtgca	540

ttggtatggc	tgagtgcttc	aggtataacg	aattcatata	atcatagaca	ggcagaagat	600
gcccttcgtt	cagccgctta	tacttatgta	gttgctgccc	ttgggttcgtt	ggctacactg	660
atttactaca	ttatgatatt	tatgggacgt	agagagtga			699

<210> 2274

<211> 2055

<212> DNA

<213> B.fragilis

<400> 2274

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gcagacttac	agatattacg	ctatcgcgta	cccgattttg	agaatttaac	tctcaaacaa	180
aaagagctgg	tatactatct	gactcaagct	gcgctcgaag	gaagagatat	cctgttcgat	240
cagaacggaa	aatacaatct	taccatccgg	aggatgcttg	agacgatcta	tacggattat	300
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gagtttctga	agcaggcatt	gcttagtggt	gacgcttcga	agctcccttt	ggctcaaggg	480
cagacggtag	aacaactttt	tgaagaactg	tctcccgtag	tcttcgatcc	gaaggtaatg	540
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gactttgacg	cagcccgctc	attgggtggg	aactatgccg	tgaaagtaga	cccggaaactt	1860
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tatgatgaag	gctatgccga	gcagatgctg	cgttatagca	gggactatc	gccgctgcct	2040
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<210> 2275

<211> 885

<212> DNA

<213> B.fragilis

<400> 2275

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gacaagatag	tctatatcga	gaacagcgat	ggtaacacga	atgtgcgttt	tcatcaggca	180
gacacccata	agagattctt	cgctcttctg	gaatcccaga	acatccgtgt	aaatcgcttc	240
agggcgagact	gcgggttcctg	ctcgaaggaa	atcgctcagt	agatagagaa	gcattgcaaa	300
cattttctaca	tccgtgccaa	ccgatgcagt	tcgctctaca	atgacatctt	tgctctgaga	360
ggatggaaga	cggaggagat	taacggcatc	cagttcgaac	tcaattccat	tctcgttgag	420

aaatgggaag	gcaagtgcta	tcgtcttgtc	atccagagac	aaagacgcaa	cagtggcgac	480
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gacatgaaca	acggattcgg	ttggagcagg	ctccccaagt	cattcatggc	ggagaatact	660
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gacaccaagg	cttttgggct	caagaaaacg	agtcgcataa	aggcttttgt	cttcagattc	780
atctccgtac	ctgccaagtg	gatcatgact	gcaaggcaat	acgtgctgaa	tatctacaca	840
gagaaccgag	cttatgcaaa	acccttcaaa	acagaattcg	gataa		885

<210> 2276

<211> 678

<212> DNA

<213> B.fragilis

<400> 2276

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ggaaaatgga	tttgggtacc	gatgtatgcc	agtatcctgt	atgttctgct	aaagaacttc	180
aattggaaaa	taacactatg	ctgcctgact	gccatcgac	tcaccatcct	ctttgccgat	240
caagtttgtg	ccagcctgat	acgccctgcc	gtagaacgcc	tgcgaccgtc	caatccggca	300
aatcccatct	ccgacctcgt	ccacattgta	aacaactacc	ggggcggacg	ttacggcttt	360
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aaacatacgg	aaatcacgat	ctacgtaggg	ctacttacaa	caataggaat	tgtggtttac	660
gcttcaatca	tggcataa					720

<210> 2277

<211> 696

<212> DNA

<213> B.fragilis

<400> 2277

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catgcacagg	agaagctgac	ccgctatcag	gtgaggaacg	ccattacggg	gcgtactccg	180
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gatgacaaat	tcaaagaagt	ggcatgcagc	accgatcctg	aacagaaaca	tcgtttctca	660
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<210> 2278

<211> 501

<212> DNA

<213> B.fragilis

<400> 2278

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tactccattg	acgggcattt	cgatategat	atgctgtatt	cacagatgat	gaatcaggag	180
aatttcaggg	tgagcagagc	tacgctttat	aacacatca	tcttacttat	caatgcccgg	240
ctgggttatca	aacatcagtt	cggtacttcc	tcccaatcag	aaaaatcata	taatcgcgag	300
acgcatacatc	accagatatg	tacacaatgc	ggcaagggtca	ccgagtttca	gaacgaggct	360

ttgcagaacg	cgattgaaaa	caccaaatta	agtaaattcc	aacttttcgca	ttactcctta	420
tatatatatg	gtatatgtag	taaatgcgac	agggcacaata	agagaaaaag	agtaaataac	480
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<210> 2279

<211> 1827

<212> DNA

<213> B.fragilis

<400> 2279

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cgtgccaacg	gaataccggc	aggtgcacta	aacagcagca	atgacgaaac	cgaaaatgcc	300
aacttacgca	gagcctgcat	ctcaggacaa	cttaagctcc	tctacatctc	gcccagaaaa	360
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gccttcggta	acatcaacgg	gattggtgaa	tataaaaaga	aaaagtacgg	aaaagatttt	1800
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<210> 2280

<211> 585

<212> DNA

<213> B.fragilis

<400> 2280

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aaaaatgaat	tgcttaaccg	tcagataatt	attgatatga	tacagtcaaa	gaaagaaacc	120
cacctgcagc	aacaattgcg	tgtggaaaag	atggctttcg	gtgtcttagg	tatctttctg	180
ggaatagtgt	gttacacttt	ttggagaaat	gtagctccag	gttggaattc	atggatattg	240
ctgggaatgg	tgatatggct	tttgtctatg	cagactctta	tgtttcggat	tatatatacc	300
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<210> 2281
 <211> 1188
 <212> DNA
 <213> B.fragilis

<400> 2281

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gttgctacag	agtctcgggt	gcaatcgatt	tcttttgaag	tcggttcttc	tatgatagct	180
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gggaatggga	agggagagta	tgttgacctg	ttcgatatcg	ctattgatga	agcagaaaat	420
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aataaggaaa	cgggtaaaca	aacttcttta	ttagaacctt	tatacgaaac	agcaccgttt	660
tgttcttctg	gtaattacca	aattacgaat	actgcctcag	tgctattttac	ccgtaagtgtt	720
gacaatcata	tatatcggat	aacgggagaa	tcgattgaac	cactttatat	ggtagattgg	780
aaagataagg	cttttccgga	gagtgtataa	cagcgtcagt	tccaatgtaa	tgatttgaat	840
cagttctgtt	atcaaggaaa	atatgtatat	actatgactg	atttatgtga	tactccttcc	900
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<210> 2282
 <211> 1875
 <212> DNA
 <213> B.fragilis

<400> 2282

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<210> 2283

<211> 831

<212> DNA

<213> B.fragilis

<400> 2283

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cgtattagta	cagactttta	tcacagtatc	ctcggcaact	cgggattctc	catagcaatc	780
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<210> 2284

<211> 822

<212> DNA

<213> B.fragilis

<400> 2284

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aatgacgact	gcggacagat	gtcggcttgg	tatatgttca	atgccatggg	attctatccg	600
gtcgatccgg	tgagcggaca	ttatgtgttc	ggtgctccgc	agatgcctaa	aattgttctc	660
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tatatcgaca	gtatcacact	gaatggtgaa	ccctatacta	aaaactacat	ttcacatgaa	780
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<210> 2285

<211> 1038

<212> DNA

<213> B.fragilis

<400> 2285

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ttatatatga	agacacatct	tatatcttta	tggttcacat	cttttggggg	gatggcttgt	180
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<210> 2286

<211> 1170

<212> DNA

<213> B. fragilis

<400> 2286

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<210> 2287

<211> 1521

<212> DNA

<213> B. fragilis

<400> 2287

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agtctttata	ttacattatc	tcacattgcc	tctgtaagag	gtaagagcgt	agcataccta	180
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<210> 2288

<211> 1128

<212> DNA

<213> B.fragilis

<400> 2288

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<210> 2289

<211> 894

<212> DNA

<213> B.fragilis

<400> 2289

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<210> 2290

<211> 210

<212> DNA

<213> B.fragilis

<400> 2290

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tatcgcgtgg	taacagaaac	atcctgtttt	ggagtttagag	tgataaactg	tacatcaggt	180
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<210> 2291

<211> 282

<212> DNA

<213> B.fragilis

<400> 2291

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ggtgaagttg	tggcagttgg	tcacggtagc	aaagacgaag	aaatggtatt	aaaggcaggg	180
gatactgttc	tttatggaaa	gtatgctgga	acggaacttg	aagtagaagg	taaaaaatac	240
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<210> 2292

<211> 1269

<212> DNA

<213> B.fragilis

<400> 2292

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<210> 2293

<211> 903

<212> DNA

<213> B.fragilis

<400> 2293

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ttgcgggggtg	acatttatct	cgatcagaaa	aagaaatcgc	tggcaaaagc	ggacttcgaa	840
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<210> 2294

<211> 1161

<212> DNA

<213> B.fragilis

<400> 2294

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cacgagcgta	tcagccggct	ttcattcgag	ctggtagatg	ccatttgtcc	cttttcttcg	300
ggagcactgg	ccatgcagat	tgccaaagaa	cagcatgttc	cgattgtagc	tacgtttcac	360
tccaagtacc	ggcggtattt	tgagagggcc	attccttccc	gtctgttggg	gaactatctg	420
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<210> 2295

<211> 1281

<212> DNA

<213> B.fragilis

<400> 2295

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aatgccgggtc	atacacttga	attcgaagga	cagaaatatg	tgcttcgttc	cattccttca	180
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catatttcga	agaaagcgca	cctcattttg	cctacacacc	gtatttttga	tgcggcttat	360
gaagctgcca	aaggcgatgc	taaggtagga	actaccggaa	aaggatatcg	tccgacttat	420
acggataaag	tgagccgtaa	tggcgttcgt	gtaggtgata	tcttgcataa	ctttgaacag	480
aaatatgctg	cggcaaaaagc	tcgccacgaa	cagatcctga	aaggtttgaa	ctatgaatat	540
gatttgacag	aacttgaaaa	agcctgggtc	gaagggaatcg	aatacctgaa	acaattccag	600
ttggtggata	gtgaacatga	aataaacggt	ttgctcgata	acggcaaatac	cattccttgc	660
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gaacagttgg	gcgtacagat	caagattgtg	tcggtagggtc	ctgaccgcga	acaaactatc	1260
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<210> 2296

<211> 1374

<212> DNA

<213> B.fragilis

<400> 2296

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ctgacagcac	agcaaaagta	tcaaccgaca	gaggctaacc	tgaagcccg	gagtgaattt	180
caggacaata	agtttggaat	cttccttcct	tggggactct	atgccatgct	cgctaccgga	240
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ttctatcctt	cgaagtttga	tgcagacaaa	tgggtagcag	ccatcaaggc	ttccggagct	360
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gtctttgctg	acaaaacacc	ggtacgtttc	acaaagaata	aggaaggaat	tgtattggaa	1320
cttgctaaag	ttccaacgga	tgtagactac	gtggtagaac	ttacaattga	ctaa	1374

<210> 2297

<211> 207

<212> DNA

<213> B.fragilis

<400> 2297

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caggacgtta	ctggttggtta	cggctcttgc	tctgtagggtc	tatattgctt	tttctatggc	120
ctattcatcc	agaagatttc	aagaaagtac	ttcaattatc	gaatgggtaa	acgattagaa	180
aaagaagatg	tgaggataat	taactga				207

<210> 2298
 <211> 1515
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
 <222> (58)
 <223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2298
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 ttactttacc tgatattcta ccgggtactg atttatcaaa aacaaccggg aaaaatacct 180
 tttcacccgt tgagtgtatc cggagtattg ctacttgcca ccgccctcct gtccatcccg 240
 atacggggag gtttcacggg gtcgaccatg aacctgagca aagcctactt cagcagtaat 300
 cagcggttga accatgcggc tatcaatcct tgtttcagcc tgatggagtc attgtcacgc 360
 caggacaatt tcgacaagca atatcgattc atgccagccg aagaggcaga caaactcttt 420
 gccgaactca aagaccagcc ggttgccccc actgacagca tcccacaact cttcacgacc 480
 gaacacccga acgtgatatt aatcatactt gaaagctttt cgtccaaact gatggaaacc 540
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 ttggctaaac gataa 1515

<210> 2299
 <211> 666
 <212> DNA
 <213> B.fragilis

<400> 2299
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 gaattgcccc gtatcaaaag cattgctgcc gcttacgaga agagtcatga tctggcacaa 180
 gccttgtgga aagagaatat ccgtgaatgt aagattctgg caggcttatt acagccgata 240
 gatactttct ttcccagat agccgatatt tgggtagagg atattcggaa tatcgagata 300
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 ttgctgatga aaaagggaga tatggcccag cgtcctgccg gtgagttact cgatcaggcg 480
 atttgtgccg tacagtcagg gagttatcat gttcgcaatg cggcaatgct tgccatccgt 540
 aagtatatgc agcatagtga ggaacatgct tttcaagttt gccgtctggt agaaggcatg 600
 gagaactctg aaaaagaggc ggaacagatg ctgtatgcga tggtgaaaga cgagataaac 660
 gattga 666

<210> 2300
 <211> 1425

<212> DNA

<213> B. fragilis

<400> 2300

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gtaaacacct	ttatcggagc	agccgacaac	ggtcacacct	tcccgggtgc	ttgcctgcct	180
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<210> 2301

<211> 2142

<212> DNA

<213> B. fragilis

<400> 2301

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<210> 2302

<211> 1416

<212> DNA

<213> B.fragilis

<400> 2302

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2124

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<210> 2310

<211> 543

<212> DNA

<213> B.fragilis

<400> 2310

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<210> 2311

<211> 1380

<212> DNA

<213> B.fragilis

<400> 2311

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<210> 2312

<211> 3885

<212> DNA

<213> B.fragilis

<400> 2312

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<211> 3066

<212> DNA

<213> B. fragilis

<400> 2313

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<210> 2314

<211> 1314

<212> DNA

<213> B.fragilis

<400> 2314

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<210> 2315

<211> 498

<212> DNA

<213> B.fragilis

<400> 2315

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<210> 2316

<211> 1065

<212> DNA

<213> B.fragilis

<400> 2316

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<210> 2317

<211> 2322

<212> DNA

<213> B.fragilis

<400> 2317

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<210> 2318

<211> 294

<212> DNA

<213> B.fragilis

<400> 2318

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<210> 2319

<211> 243

<212> DNA

<213> B.fragilis

<400> 2319

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<210> 2320

<211> 1026

<212> DNA

<213> B.fragilis

<400> 2320

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<210> 2321

<211> 840

<212> DNA

<213> B.fragilis

<400> 2321

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<210> 2322

<211> 2814

<212> DNA

<213> B.fragilis

<400> 2322

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<210> 2323

<211> 771

<212> DNA

<213> B.fragilis

<400> 2323

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<210> 2324

<211> 555

<212> DNA

<213> B.fragilis

<400> 2324

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<210> 2325
 <211> 1281
 <212> DNA
 <213> B.fragilis

<400> 2325
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<210> 2326
 <211> 270
 <212> DNA
 <213> B.fragilis

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<210> 2327
 <211> 765
 <212> DNA
 <213> B.fragilis

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765

<210> 2328

<211> 1221

<212> DNA

<213> B.fragilis

<400> 2328

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<210> 2329

<211> 1569

<212> DNA

<213> B.fragilis

<400> 2329

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 <211> 1248
 <212> DNA
 <213> B.fragilis

<400> 2330

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 <212> DNA
 <213> B.fragilis

<400> 2331

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<211> 1407

<212> DNA

<213> B. fragilis

<400> 2332

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<210> 2333

<211> 684

<212> DNA

<213> B. fragilis

<400> 2333

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<210> 2334

<211> 2949

<212> DNA

<213> B. fragilis

<400> 2334

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<211> 1299

<212> DNA

<213> B. fragilis

<400> 2335

[illegible]

<213> B.fragilis

<222>

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<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2336

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
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<210> 2337

<211> 540

<212> DNA

<213> B.fragilis

<220>

<221> unsure

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<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2337

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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	180
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	240
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	300
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	360
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	420
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	480
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<210> 2338

<211> 567

<212> DNA

<213> B.fragilis

<220>

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<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2338

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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	180
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	240
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	300
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	360
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	420
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	480
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnntccct	acatgcaaaa	tgtaaattgat	540
ttaattggct	gtttattaaa	tacataa				567

<210> 2339

<211> 312

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222>

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<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2339

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acagaaaata	ttaaaaccaa	gcgcttggt	gacgtttttc	gcttcatttc	attccatccc	120
ggtgagatgt	atggaccaca	tcagcattta	cgtatcgaaa	ttaattatgt	gaaaaaggga	180
agctgcattc	tccatccgga	tcagcagagt	atcagtcctc	accacggggc	tggaaggatc	240
ngcggagcgt	tcgtannnnn	nnngnnnnngt	accaacggng	gctcagatat	tnntannnaa	300
nnnngggctc	cc					312

<210> 2340

<211> 294

<212> DNA

<213> B.fragilis

<400> 2340

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gatatagaaa	atgcgcttca	agcacttgaa	gaattttctc	agactgaacc	cgctcggtaaa	120
gacgaagctt	actatctgat	gggaaatgct	taccgcaagt	taggagactg	gcaaaaagcc	180
ctcaataatt	atcaatccgc	cattgaactc	aatccccgac	gcccggctct	ccaggcacgc	240
aaaatgggtg	tggatatatt	gaactttctac	aataaagata	tgtataatca	ataa	294

<210> 2341

<211> 846

<212> DNA

<213> B.fragilis

<400> 2341

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gcagccctga	aggcggggga	ggagatattg	tctatttata	ccgatccggc	ttcggacttc	120
gaaatagagc	ggaaagcgga	tcaactctct	ttgactattg	ctgaccggaa	agcacacgta	180
acaattgccca	ccattcttga	cgaaactcct	tttcccgtac	tgagcgaaga	ggggaaacat	240
ttagagtata	ataccgctcg	caattgggat	gtgatgtgga	ttgtcgatcc	attggatggg	300
acgaaagagt	ttatcaagcg	aaacgggtgag	tttacggtaa	atattgcgtt	agtgaagacc	360
ggagttccca	ttatcggagt	gatttattta	ccggtcaaaa	aagaacttta	ctttgccggg	420
caggaaatcg	gtgcctacaa	gctgtcgggc	attacgactt	tagaagacga	tgcaacactc	480
gataagctgg	tagctgcttc	cgtacggttg	ccgcaagacc	tgacgcggga	ccgatttgta	540
gtagtggctt	cccgttcaca	cctgaactcg	gagaccgaag	cgtacattga	tgcggtgaag	600
caaaaacaca	aacatgtcga	gttgatttcc	agcggcagtt	ctattaaaat	atgtttgggt	660
gccgaaggta	aagcggatgt	ttatccccgt	tttgctccta	cgatggagtg	ggatactgct	720
gccgggcatg	ccattgcgcg	tgctgcggga	atggaaatth	atcaggcgga	taaaaaagat	780
gttcctttgc	agtataataa	agaagatttg	ctgaatccct	ggttttattgt	tgagaagaga	840
aggtaa						846

<210> 2342

<211> 480

<212> DNA

<213> B.fragilis

<400> 2342

ctttttttctc	ctcaaggagg	cggttcatct	ccgttatctt	caccacagca	atcaggctct	60
ttgcctaaac	ctgaagaagt	cattaaggat	gcaactgtaa	aaaaggcttt	ggaagaagcc	120
tggagtata	tgcttaagcg	ttccacagag	gtccaaagac	aagaagttgg	tttctggatt	180
tattatgac	cggtgaaaaa	gcaatattac	ataggtaaga	aacgatattg	tatggcagtg	240
agaatgacg	gaaaagcaag	aggaaatata	agccttgagg	acaaatctcc	ttctataaat	300
ggtgtgcctg	ccacagcaaa	agtggttgct	tcttttcata	cacacactcc	aatgactgaa	360
ataaaaaggta	agaaaagaaa	ggcaggtcca	tctaaagaag	ataaagaaaa	tgccgataaa	420
aataaaatac	ctattgatata	attagttttc	cgttgcatth	tagaaattgt	aattttattaa	480

<210> 2343

<211> 1569

<212> DNA

<213> B.fragilis

<400> 2343

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attgctttga	tcttggacaa	aatgcgtccc	ggcatgatac	ttttctctgt	agtggtgttg	120
tttctctgtg	cgggtatttt	gactccgaag	gaaatgctcg	aaggattcag	taataaaggg	180
atgataaccg	tggccctgct	ttttttggtc	agtgaaggta	tcaggcagtc	gggagcgttg	240
gggcaggttg	tcaagaagtt	gcttcctcag	aaacggacga	cggctctccg	ggcacaatta	300
cgcttattgc	ctgcggtcgc	ttttatttcc	gcttttctga	acaatactcc	ggtagttgtc	360
attttttgcc	cgattattaa	acgatgggca	cggacagtcc	atttacctgc	cactaaattt	420
ctaattcctc	tttcgtacgt	aactatattg	ggaggtatct	gcactttgat	cggtagatct	480
accaacctag	ttgtgcatgg	aatgatattg	gaatccggtc	atgaaggatt	taccatgttc	540
gaattgggca	aagtgggtct	ctttatttga	atagccggta	ttatttatct	gtttgctttt	600
tctaagaaac	tgcttccgga	tgacgcggcc	gatacagctg	tgcccgatga	agaagtagaa	660
gaaggcgata	agcttcaccg	cgtggaggca	gtacttggtg	cccgtttccc	gggtatcaac	720
aaaacttttg	gagagtttaa	ttttaaacgt	cactatgggtg	ccgaagttaa	agaaataaag	780
aaacgtaacg	gacagcgggt	catcaacaac	cttgaagaag	tgatcttgcg	tgaaggagat	840
acgttggttg	taatggcgga	tgacacgttc	ataccacttt	ggggagaatc	ttccgtgttt	900
gtgctgttgg	ctaaccgaaa	tgataatgaa	ccgataccgg	gaaaaggaaa	acgttggttt	960
gcattgattc	tgctgatcct	gatgattgcc	ggtgctacta	tcggtgagct	tccggtatgt	1020
aaagaaatgt	ttccggacat	gaagttggat	atgttcttct	ttgtttctgt	cactaccatt	1080
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<210> 2344

<211> 501

<212> DNA

<213> B.fragilis

<400> 2344

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acttaccggt	gtattctgac	caacgattac	aagtcacga	caagggacat	tgttgaattc	180
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<210> 2345

<211> 819

<212> DNA

<213> B.fragilis

<400> 2345

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<210> 2346

<211> 1176

<212> DNA

<213> B.fragilis

<400> 2346

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<210> 2347

<211> 1131

<212> DNA

<213> B.fragilis

<400> 2347

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gcacttatca	aagaagggtg	aagtaaggat	cagcttgaac	tcgtcggtt	cggtgggtact	1080
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<210> 2348

<211> 843

<212> DNA

<213> B.fragilis

<400> 2348

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<210> 2353

<211> 192

<212> DNA

<213> B.fragilis

<400> 2353

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atgatattgg	ctctggcagc	tattatcacc	tacttcgttg	cgaaggacga	ctttaagggtg	120
tttatctacg	tatgcggcgc	ggcaattttt	gtcaagctga	tggagttttt	tatacgggtc	180
accaacagat	aa					192

<210> 2354

<211> 396

<212> DNA

<213> B.fragilis

<400> 2354

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ctggaattaa	cggaaaaggt	aactatactc	ttatccacgt	taataatgat	tttagtgctc	180
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attgccatca	tttatttttt	ccgcaggcaa	cttatcattt	cgccgatggg	aaatttcctt	360
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<210> 2355

<211> 312

<212> DNA

<213> B.fragilis

<400> 2355

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<210> 2356

<211> 252

<212> DNA

<213> B. fragilis

<400> 2356

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ctgagaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
tttcacccgt	tatcgactca	acactgggtc	agagatgcag	cagtatcttc	ggatatcagt	240
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<210> 2357

<211> 918

<212> DNA

<213> B. fragilis

<400> 2357

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cgcaaaatcc	tgattaaaga	aaacgaaggg	aaaataaagg	taaaacttta	cgaacagtct	180
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<210> 2358

<211> 1383

<212> DNA

<213> B. fragilis

<400> 2358

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atttcattcg	taacaggact	tactaaccgg	ctcggactta	ttgtaaaaga	gcaattccag	180
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<210> 2359

<211> 252

<212> DNA

<213> B.fragilis

<400> 2359

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<210> 2360

<211> 840

<212> DNA

<213> B.fragilis

<400> 2360

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gccggaaata	aaattgctga	ggaatttagt	atgcttcaat	ccattgaaga	agaactgtac	780
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<210> 2361

<211> 1191

<212> DNA

<213> B.fragilis

<400> 2361

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tatggcaatc	gcacgccaac	aggtaaattc	accctgtatg	gcgaagaaca	tagtctcacg	420

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gagggcttcc	ccggtaatct	ggaagttgaa	atgacttatc	gccttgaaga	agaagagaat	600
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gctcaatgct	tccccgacac	accgaataaa	gcacacttcc	cgtcggctac	tttactgccg	1140
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<210> 2362

<211> 522

<212> DNA

<213> B.fragilis

<400> 2362

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gcgcggaagt	tgacagatga	ccactcggat	gccgaagatg	ccgtgcagga	agtgatgctg	120
aagttatgga	aacttcgtcc	gaaactggac	gaataccata	gcattgaggc	ccttgccatg	180
actatgacct	atcataacctg	catggatatac	ctcagaggga	aacatcccga	caacctatcg	240
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gacgaattca	gcctgatgcg	acatatcatc	agtacacttc	cacctctgca	acagaccatc	360
ctccggatga	aagatgtaga	agagtacgaa	accgaagaaa	tcgccgagat	aacaggatgc	420
agctccgaag	ccatccgcag	caatttatcc	agggcacgga	aaaaagtaag	agacatttac	480
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<210> 2363

<211> 630

<212> DNA

<213> B.fragilis

<400> 2363

cgactcataa	atctaccctt	aatcgtgtat	tggatgatag	ttgcggattt	taggatagag	60
aaattattaa	agtgtcacct	aataaataac	aacattatga	aaaaattatt	attattatct	120
gtattatcaa	tttttatgat	tgccctgccac	caaccagata	ctccaccata	ttcatacagt	180
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gaaacagtta	ttattaactc	tagattagaa	ctcgccttct	caagttatcg	aataaagacc	300
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aatatcgttt	attcgattgt	taaagggaag	tatttatata	atttagaatc	ttttacatta	540
gattcatatg	caggagaaat	agagaatcag	ggagagaata	atgctcctat	tattgtattc	600
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<210> 2364

<211> 1443

<212> DNA

<213> B.fragilis

<400> 2364

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atgaaaaaga	ttgtgttatt	atcgctgttt	gccctgtgcc	tcccactact	tgtgatggcg	180
caaagcaata	atgacgacct	ttatttcgta	ccttctaagg	aaaaaaaagca	ggaagccaaa	240
aagactcctg	tgaagaagga	accggaaaaa	aaagtgtgtca	ccacgaacat	ttatacgtct	300

ccgggtacta	cggtagtagt	tcaggaccgt	aaaggaaaca	aacgcgatat	gcgtgatgtg	360
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gcggtaagca	ttagcagccc	gctttactgg	gacattgttt	atggaaccaa	ttcctgggat	600
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tcctcaggta	gttctactcg	ctctagtagt	agttattctt	ccgtagcag	aagtagtgg	1380
agcagttctc	gttcgacaag	tggtaggagt	agctacagca	gaagtagcgg	tggtcgaaga	1440
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<210> 2365

<211> 201

<212> DNA

<213> B.fragilis

<400> 2365

aattattcaa	aaccatcaat	aataactaat	cataatccct	accacaatga	agaaaagtat	60
tattctgtta	ttcatcagtt	tacttttatc	cccgtatgc	ataaaggcac	atcaaccgga	120
attctccact	gccgattttt	tccggctggc	agactccgga	cgagacgtct	attccatgaa	180
tcctgcatgg	cgtttttata	a				201

<210> 2366

<211> 231

<212> DNA

<213> B.fragilis

<400> 2366

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gggtataatt	atgccagca	gattcttgaa	gatacctgta	acggatgcag	ttcatgcgca	180
accgtatgtc	cggacggatg	tatctctgtt	tataaagtaa	aagtagaata	a	231

<210> 2367

<211> 450

<212> DNA

<213> B.fragilis

<400> 2367

cacattaaaa	aggacatgaa	gaaaattgga	atttggtgcg	accacgccgg	tttcgaattg	60
aaagaatacg	taaggggctg	gctggaagca	aaagggtggg	aatacaaaga	cttcggaact	120
tactcgacag	acagctgtga	ctatcccgat	tttgcccatc	cattggcact	ggctgttgaa	180
gccagcgaat	gctatccggg	aattgccatc	tgtggtagcg	gtaatggat	cagcatgaca	240
ttaaacaac	atcagggtat	tcgtgccgca	ctctgctgga	cagcagaaat	cgcacacatg	300
gcacgcctgc	acaacgatgc	caacgtattg	gttatgcccg	gccgttatat	cagcacggaa	360
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aaacgcattg	ataaaattcc	tgtaaagtga				450

<210> 2368

<211> 501
 <212> DNA
 <213> B.fragilis

<400> 2368

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gctgagcctc	aggtagaagc	tcccgtagaa	gttactccgg	tagttgctgc	tccggtagaa	180
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ggtgctgatg	gattgaaaga	ttatagcgta	gtatgcggta	gcttcgggtt	gaaagcaaat	300
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gctgagacag	ctatgtatcg	tggtgattgta	aatacatttg	ccgatagggc	ttctgctgcg	420
caggcacgtg	atgctttcaa	ggctaaatat	cctagtagaa	aagacttcca	gggcgcctgg	480
ttgtttatata	gaatctatta	a				501

<210> 2369
 <211> 1587
 <212> DNA
 <213> B.fragilis

<400> 2369

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ggaattgatc	agtatgattt	taatatagcc	tttaatatta	gtgacagagt	ttatctggga	720
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gatctagcct	ataaattctc	ttcttataaa	gaagacttct	atcctttcta	taatgagttt	1500
aatgatagag	gcattgtaac	tcctaattga	actaagataa	ctaatacccg	tagccaagta	1560
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<210> 2370
 <211> 1128
 <212> DNA
 <213> B.fragilis

<400> 2370

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gcctcagcgc	agacaaaaaga	gcattattat	agcgaataag	ctaaagataa	tatctttatc	120
agcgtgggtg	taggagcaca	gggatgtgtc	aaccccgaca	actttgatta	tggctttgga	180
catgccataa	ctccactgat	acacgcatca	gtcggtaaac	tgttcaaccc	tatttggggg	240

atccgtggcc	aggtagccgg	atgttggagt	acattatact	ccgaatatgg	aatgccggaa	300
ggcgaataca	agaagatgaa	gaataaaaaa	tacttcactc	tacgtgccga	cggattgttc	360
aacttgtaa	acgctatcgg	aggctataat	cccgatcgct	tggtcactgt	atccgtatct	420
gcaggtccgg	gacttacgtt	tgccaaggcc	tatggcaatc	aagataaaact	gaatgcgttg	480
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ggtagtgcca	agtggaaacca	gaaactgtct	gaggcccggt	ctcaagccgt	ttatgacgct	1020
cttatcaaag	aaggcgtaag	caaagatcaa	ctggaactcg	tcggtttttg	tggaacagcc	1080
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<210> 2371

<211> 777

<212> DNA

<213> B.fragilis

<400> 2371

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aaacttgaag	agttgaaagt	agaactggaa	gctaaatacg	gagtacgtat	ctgcctgttg	180
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gctatgacgc	gtatagtggg	tcccggaatg	gtggaacgcg	gacacgggca	tatcattaat	420
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gccgctgtca	aagcactttc	ggacggtttg	cgtattgatt	tggtagatac	tccgcttcgt	540
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gctgaaacag	tttattatgc	tgccctctgt	cccgaacata	tacagatagc	agaagtgtgt	720
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<210> 2372

<211> 882

<212> DNA

<213> B.fragilis

<400> 2372

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catacggact	tgatgaaaac	acaggctttg	ttgcgtgcgt	tgataaata	taaatttgat	360
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<210> 2373

<211> 228
 <212> DNA
 <213> B.fragilis

<400> 2373
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 cttacctcac actacattcc acctgtcagg acactactta ttgttgatcg ttcattcattt 120
 ttttatcttt tccatgtcac gttttccttc cttctccgtc ttgcttatgt aaatggaact 180
 aaaacaattc aaaatagccg ttcttccact ccgcgacaaa ctgcttag 228

<210> 2374
 <211> 240
 <212> DNA
 <213> B.fragilis

<400> 2374
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 gtcatgctgt atagcatcgg gaaggattct ttcgttatgg tacggccttg ccgaaaaaag 180
 cttttatccg ggcaaagtac cggttccttt gatgcatatc gattcaaagt ggaaatttaa 240

<210> 2375
 <211> 255
 <212> DNA
 <213> B.fragilis

<400> 2375
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 aataaagaat tgctcccgaa aagagttttc cgagagaaga cgaaaggaca atctgttgca 180
 aaaaaacaga ttgtttacaa aaccaaattc gatctaagag tatttgtcat gccgcaaaga 240
 tacataatat tttga 255

<210> 2376
 <211> 1476
 <212> DNA
 <213> B.fragilis

<400> 2376
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 gtggatgtca atacgatgga acattcgtct gttccctttt tgtctttgaa cgaaatagca 1200

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cctgaattgg	gcatagctcc	tgaacattat	gaagctattg	agaaggcggg	aaaatcatta	1440
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<210> 2377

<211> 249

<212> DNA

<213> B.fragilis

<400> 2377

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tctccgaaag	cccttccggg	acttgatgac	tttttctctc	tcaaggaggc	ggttcatctc	180
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<210> 2378

<211> 438

<212> DNA

<213> B.fragilis

<400> 2378

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cgtttcaactt	ctgtcctcgc	acatcgcacg	atgcttgaag	ccggactgaa	gaaaaaagac	360
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<210> 2379

<211> 1071

<212> DNA

<213> B.fragilis

<400> 2379

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caggcagaca	cccataagag	attcttctgct	cttctggaat	cccagaacat	ccgtgtaaat	420
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agattcatct	ccgtacctgc	caagtggatc	atgactgcaa	ggcaatacgt	gctgaatatac	1020
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<210> 2380

<211> 558
 <212> DNA
 <213> B.fragilis

<400> 2380

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<210> 2381
 <211> 651
 <212> DNA
 <213> B.fragilis

<400> 2381

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gacgggaaat	gctataccga	tgccaagctg	gtacgcgaac	aagccatgat	cgcgtttcgt	600
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<210> 2382
 <211> 1980
 <212> DNA
 <213> B.fragilis

<400> 2382

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ccggaagacg	accaggtaaa	gattggcggt	tatccgatca	tcaatgtata	tgccaacctg	1920
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<210> 2383

<211> 1110

<212> DNA

<213> B.fragilis

<400> 2383

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gtgaaagttg	aacatttcgg	cgccttggga	ggaattgttc	ccgatccgga	cgaaatagta	1080
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<210> 2384

<211> 999

<212> DNA

<213> B.fragilis

<400> 2384

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gttagttata	atctgggaaa	tagctggaac	aaagtaaaaa	ggaataaaaa	agcaaatagc	180
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aataatatgg	gaatgtctta	taatgcggga	aatgaacaat	attactataa	gacttatcgc	900
tcagcacctg	acgataacat	aatgaagaac	aatagtttta	atccatattt	taccttaatt	960
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<210> 2385

<211> 462

<212> DNA

<213> B.fragilis

<400> 2385

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ggtaaacaaa	aaggagtgc	tatggtagag	ctgtccaacg	aaatgctgga	aacctaccag	180
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aactgtctgg	atgctgacaa	aaagaaggca	aagaaagtga	aggaagtggg	ggcaggcgga	300
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ctgttcaaaa	ccggtaaaaa	aggctcggct	accctgattt	acatcgaggg	cgagttggat	420
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<210> 2386

<211> 993

<212> DNA

<213> B.fragilis

<400> 2386

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cgtgacggta	aaaaagccaa	agcctatgct	aaagagcgga	acataccgaa	gtggatatgac	180
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<210> 2387

<211> 1131

<212> DNA

<213> B.fragilis

<400> 2387

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aaaggaggag	ctgtacgtaa	taattcccgg	gggcataata	ccagttcgta	tggtaattca	1080
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<210> 2388

<211> 978

<212> DNA

<213> B.fragilis

<400> 2388

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<210> 2389

<211> 1236

<212> DNA

<213> B.fragilis

<400> 2389

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caaaagtga	tagggaaaaa	catccccgtg	gtaaaagacc	acccgtttgt	cacgaccgaa	1080
ggtatcaagg	cccaggaaga	aaagcaggaa	gaaatcaagg	ttaaagccaa	agccaacaaa	1140
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<210> 2390
 <211> 999
 <212> DNA
 <213> B.fragilis

<400> 2390								
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<210> 2391
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 <212> DNA
 <213> B.fragilis

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<210> 2392
 <211> 558
 <212> DNA
 <213> B.fragilis

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agtttgccg	g	gtattcacga	gtctgtgaag	agaggcagca	agatacacgt	aagatatatg	360
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cacgagtttg	accatttggg	tggaaaaatg	ttcatagacc	atatctctcc	tctgcgtaag	480
caaagtataa	aaggaaaatt	gaacacgatg	ctgaaaggta	aagcacgcag	ttcttataaa	540
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<210> 2393

<211> 939

<212> DNA

<213> B.fragilis

<400> 2393

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aacctgggtg	gaaatccgga	gaatccattc	accattttcc	ccgaagtagc	cgaactgtat	900
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<210> 2394

<211> 1131

<212> DNA

<213> B.fragilis

<400> 2394

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aaagtgttcg	gtcttgaatc	atcttggttc	tcggcaccct	acaaagtgtc	ggatgagaaa	1080
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<210> 2395

<211> 408

<212> DNA

<213> B.fragilis

<400> 2395

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ggtgagatgt	atggaccaca	tcagcattta	cgtatcgaaa	taaattatgt	gaaaaaggga	180
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ttggaattcc	tacccgaaat	cttttccac	ttcaacttga	atgccacagc	cgattcgaac	360
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<210> 2396

<211> 618

<212> DNA

<213> B.fragilis

<400> 2396

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<210> 2397

<211> 2697

<212> DNA

<213> B.fragilis

<400> 2397

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gccctggccc	caaaatcaga	ggcggcattg	gaaaaagaaa	gactacagaa	agctgaaat	2640
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<210> 2398

<211> 1257

<212> DNA

<213> B.fragilis

<400> 2398

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aatgcgggta	atgagcgtat	atatggtaaa	ggatatagtc	ctcaggcaag	tgataacgtg	1200
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<210> 2399

<211> 762

<212> DNA

<213> B.fragilis

<400> 2399

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<210> 2400

<211> 222

<212> DNA

<213> B.fragilis

<400> 2400

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gcagagattc	ttcgcaaaaa	aggtatcaag	ctgaatcgta	acgaaatgga	aaacctcggt	180
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<210> 2401

<211> 417

<212> DNA

<213> B.fragilis

<400> 2401

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<210> 2402

<211> 1173

<212> DNA

<213> B.fragilis

<400> 2402

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<210> 2403
 <211> 810
 <212> DNA
 <213> B.fragilis

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 gttagaacga ttgaagcgat cggtcatgga catggctcatg gtcacggcga tgacctgaat 780
 gccggtggtg gtattatcat ctctgaataa 810

<210> 2404
 <211> 195
 <212> DNA
 <213> B.fragilis

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 tctccatatt ttcccaaatt aaaatttaaa tattccaata acactactca aaagaaaaag 180
 acttatttaa attaa 195

<210> 2405
 <211> 774
 <212> DNA
 <213> B.fragilis

<400> 2405
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 cataaactga ttgccgaagt aatcgaggag atgggactgg aagacaaagc agtcggtatc 180
 tcacccgtag gttgcgctgt atttatctac aattaccttg acattgactg gcaggaagct 240
 gcacacggac gtgcgccggc acttgccact gccatcaaac gtctttggcc ggatcgctg 300
 gtgttcacct atcagggaga tggcgacctt gcctgcacgc gtacggcaga gactatccac 360
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 aaaaaagcaa tccgtaaagc ttttgaaaat tcaatgaacg gaaaaggctc caacctggta 660
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<210> 2406
 <211> 1233
 <212> DNA
 <213> B.fragilis

<400> 2406

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aaacactgta	aaagtgtgaa	gaatataagt	gccaatactc	aagttcatta	ttataagggtt	600
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<210> 2407

<211> 252

<212> DNA

<213> B.fragilis

<400> 2407

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aaattaagaa	acgagaaaat	acgctctgat	acaataagaa	taaggctatc	ctttgtgaaga	180
gcaatcatga	gatttactct	acaatgccga	tttatcacct	acgtcacata	cccttttgca	240
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<210> 2408

<211> 852

<212> DNA

<213> B.fragilis

<400> 2408

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cacgaaatca	ttctcaccgg	ttttatactg	gtagtatcta	tgctgttctt	cacccttgta	360
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<210> 2409

<211> 567

<212> DNA

<213> B.fragilis

<400> 2409

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tccgcggaag	tacctatcat	tgcacaaagc	gcatacgctt	acgaacacga	ccggaatgca	480
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<210> 2410

<211> 201

<212> DNA

<213> B.fragilis

<400> 2410

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<210> 2411

<211> 2229

<212> DNA

<213> B.fragilis

<400> 2411

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<210> 2412

<211> 939

<212> DNA

<213> B.fragilis

<400> 2412

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<210> 2413

<211> 471

<212> DNA

<213> B.fragilis

<400> 2413

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<210> 2414

<211> 1287

<212> DNA

<213> B.fragilis

<400> 2414

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<210> 2415

<211> 441

<212> DNA

<213> B.fragilis

<400> 2415

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<210> 2416

<211> 1818

<212> DNA

<213> B.fragilis

<400> 2416

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<211> 432

<212> DNA

<213> B.fragilis

<400> 2417

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<210> 2418

<211> 873

<212> DNA

<213> B.fragilis

<400> 2418

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<211> 969

<212> DNA

<213> B.fragilis

<400> 2419

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<212> DNA
<213> B.fragilis

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<210> 2421

<211> 426

<212> DNA

<213> B.fragilis

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<211> 363

<212> DNA

<213> B.fragilis

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<210> 2423

<211> 780

<212> DNA

<213> B.fragilis

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<210> 2424

<211> 219

<212> DNA

<213> B.fragilis

<400> 2424

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gggcacaatg	acattaagac	aacaagtata	tatcttcatg	taacgagtgc	ccataaatcg	180
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<210> 2425

<211> 843

<212> DNA

<213> B.fragilis

<400> 2425

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<211> 981

<212> DNA

<213> B.fragilis

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<210> 2427

<211> 408

<212> DNA

<213> B.fragilis

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<210> 2428

<211> 882

<212> DNA

<213> B.fragilis

<400> 2428

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<210> 2429

<211> 993

<212> DNA

<213> B.fragilis

<400> 2429

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tttcgctacc catttggttg aacaaggtag tga 993

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<210> 2430
<211> 684
<212> DNA
<213> B.fragilis

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<400> 2430
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aaaatgaaaa ttaccctgta tgaattactg atagccgcgt tcaagctgtt tatgtccgtg 120
aactatgaaa aagccagttt tgcggaactt ggaaagatgc ttggaatgtc gaaagccgga 180
atattcaaat actacaagaa caaacaggaa ctatttattg ccgtagtgga taaattttgg 240
ttcagcacgc aaaatccacg aaacaaattc actgaaacaa acggtacatt tgccgaattt 300
atagacgaat atgtgctggt cgtacaacgg acaatggata tgctgggcga cctgataggt 360
gcagagcggg aaaaggtggc acaaggaaag ttcacatata acgcccataa ttttcatttt 420
ctgtttcaac tgctccaata cgatcctgat gcaaaagaaa aactccgtaa tctttagat 480
gggtgattatg cttactggcg tgctgctata caacgtgcca tagctaccgg agaactaaga 540
gaggatgtgg atgtagagga tgcggtagtc atgttccgac aggtttacat gggactttcg 600
tttgaaatgg catttatggg cggattgaac acccagcggc ttgccaaaca tctacatgcc 660
gtttactcct tattaagcg ttaa 684

```

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<210> 2431
<211> 708
<212> DNA
<213> B.fragilis

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<400> 2431
aacttagagt atatgagtga caaacatttg gtatgtaaag gggctactgt ttattgcagc 60
aagtcaatgg taaataatag tccgggaact gcgataccct taactataac aagtaatact 120
cttgtagaac tgaatggcgg gaaagttgcg gcaacggata aggattgtac tcttgccaat 180
atgtgttttg gtaattgtaa tacaggcact aatccccctc ctcttgtgt ggcgaatgtg 240
caatggagta aattctacga aggtgcgagg gtgacagagg cggggatgaa acttctgaca 300
gaggagtcgg aagctacctg catggctttt ggcggtaaa tgaagatagc ttttcatggg 360
caggtcgcta atcccccaacc ggaagaacca ggtgaagttt caccggaagt catggctggg 420
atcttgctg taaacccaag accggaagaa acaattgtca ttactgaagg ggatgaagaa 480
agagagaaaa aaataacgga tgcttattgg gttgatgaaa agacgcagga gaaaatgcaa 540
gaaatataatc cagggaaagaa ggtgaccctt tgtcttaaaa catcaggata tgttgaagga 600
gaacaagctg acatcaaat caagatggaa gacgggaaag aaaagaccgc ttcgggcgag 660
gtgaagcggg atggtactgt tgtgatagaa aatttcgaaa tagattaa 708

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<210> 2432
<211> 756
<212> DNA
<213> B.fragilis

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<400> 2432
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gacagcatac ggaacgcatt tgcagactgg cagtatgccg tcattccgca agctccggac 180
agcacaccta tcttgcaagg agctctgttc agcaaatac cggatgaagga cagcagactg 240
atcacttatc cagattcaag gaattgcagt atgtggtgcg atctggacgt aaacggacaa 300
acggttcgtg ttttcaataa ccacctgcaa acaacggagg tcagccaaaa taagcgcagg 360
ctggaaaagg aactggctaa aaacgaactg acaggcagag aggaagcagt ggccaggcaa 420
ttgttggagg gactcaacga aaacttcagg aacgtgcgg cacaggcaaa gactttggaa 480
caattaatcc gcaccacccc ctacctata ctggtttgcg gtgactttaa ctctctcca 540
tcgtcctaca catacagtac cgtgaaaggt gacaatcttc aagacggatt ccagacttgc 600
ggacatgggt acatgtatac gttccggtac tttaaacgcc tgctgagaat cgactatatt 660

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ttccattcca aagaatttaa aggggtagat tactattcgc ctgacctcga tttgtgcagt 720
gatcataatc cggtagtgat ggaggtgaag atgtaa 756

<210> 2433
<211> 2487
<212> DNA
<213> B.fragilis

<400> 2433
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cacaaagagg taggtctgcg ttcggttgtc gaatcggttg gtaaggacgc cgattacttg 180
cgtgaatggg cggaggtgaag aatagaggag taccccaagg ctgccggcgc aggcgagata 240
atgcccgatc cgaaagttaa cgaactgttt gagcaagccg ataatgtacg aatcaagtgg 300
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ttcagtacgg acgagttgcg ctcggttccct attcgggagc gtgaaatata tgacctcttc 420
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ctgggaatgc tctccgatgg acagaatgaa ccggagtcac cagactacgg tgaatggatg 1440
gattatattt taggtgtact tgaccgattg cgtgaattga ccaaagagaa aatcgggaaa 1500
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gtgggacagg ataatgcgct gaaggtattg acagatgcca ttgtcgaatc acgaagtggg 1680
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gacattgaga ttacggagaa ggcaaagaac ctgctcgcta ccggtggctt cactccaaaa 2340
tacggagctc ggcaagtggc aggtacgata cgtaactata tccgccgtcc tatctcaaag 2400
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ggagatattg attggaatgt gaaatga 2487

<210> 2434
<211> 231
<212> DNA
<213> B.fragilis

<400> 2434
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caggatgggg	ccgatgatca	gcgcatagag	cccggctccg	cacagggctg	ccacgacggc	120
agccgttccg	gtggctatct	gtatgacgaa	actccgcagg	gcgatgaact	taaactcttt	180
attgcggtag	aacagcgcac	tgggaacgat	ggtggcgga	gcaaaaaata	g	231

<210> 2435

<211> 489

<212> DNA

<213> B.fragilis

<400> 2435

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gtcagccttt	tactgatagt	gataacattc	tttttgggtg	gcttaggctt	cgggcgacta	120
tttggaaat	atgggtgtat	ggaagatagt	tttttaggta	tgcttatggt	tatagatatg	180
ctggtaaat	acaaggtcta	taagctatat	ttctgtcagc	ccaaagctat	aatgttattg	240
tttggtttg	aatgttgctc	tattcttttg	tggttgtct	ttatctgttt	agaccaacat	300
ctattggatt	ggcaaataac	caatctgtta	ttgcaagcag	tcagtttga	cggcttcgca	360
ggagatgaac	gaggattgaa	tatgcttgca	gtcttatgcg	gtatgatcta	tccgcttatt	420
gggattgggt	gtttattcac	tggattgaga	tttataaata	agttagtaac	aacgaaagat	480
agcatctga						489

<210> 2436

<211> 264

<212> DNA

<213> B.fragilis

<400> 2436

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ctattgaata	tactatcatt	tcgcattgat	aatgtgcaaa	ttttctcact	aatagtttat	180
atgattttca	aattgatgat	gatggtttcc	cggttcgtga	gggttcggtt	gtatgtgtct	240
ctcctgctcc	atcgaggggc	atga				264

<210> 2437

<211> 1260

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (1201)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2437

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ttcaacacgg	acacagccaa	gcaagacagc	accctgccc	tttcgaaacg	tgaactgcgg	180
cgtcagcggg	tagcccgggc	caaccttcat	tacaatattc	tcggagggcc	cagctacacc	240
cccgacttcg	gcctgctgat	tggcgggaagt	gctttgatga	cttttcgtat	gaacccgagc	300
gacaccaccc	agcaacgctc	cgtggtacct	gtagccatcg	cactgatgtt	caacggcgga	360
ctcaatttgt	tctccaagcc	gcaactattc	tttaaaggcg	accgcttccg	catcttcgga	420
cagttcagtt	acaaaaatac	acaagaaaac	ttttacggca	tcggttacag	caccaataaa	480
gattatgtgc	gcagcgacac	caccagccag	taccgataca	gtggattaca	gatcaacccc	540
tggttcctat	tccgcttggg	tgaagcaat	ttctttgccg	gcccgcagg	cgcactcaac	600
tatgatcata	tgtacgatcc	ggccaaatac	cttgtcgacc	agccctctta	caaagctgcc	660
ggcggcagcg	acaaaggcta	taagaacttc	agttccgggtg	tcggcttcc	gctgacttac	720
gacacacgcg	acgtgcccgc	caacgcctat	cggggcatgt	acctcgactt	ccgtggcatg	780
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caatacaaga	ctctgcgcaa	acgcggcggtg	cttgccctgga	cggcacaaaac	gaaaaacgtg	900
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tactacatgg	gccaatatcg	tgataagtcg	tcacatgtcg	tcattggcga	atatcgtcag	1020
atgatcaata	cggacaaaagg	caattgggtg	aagcgcgatgc	tcaacccatgt	gggctatgtg	1080
gcttgggacg	gatgcggatt	catggggccct	aacccgggaa	aaatagaagg	tgtcctgcct	1140
aacatgggtg	tgggtctccg	cattgaagtg	cagccccgca	tgaacgtccg	cctcgacctg	1200
ngacgcaaca	tgggtgaacaa	gcaaaaatctg	ttctacttca	acatgacaga	agcatttctga	1260

<210> 2438

<211> 882

<212> DNA

<213> B.fragilis

<400> 2438

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atggtaaatg	ccggtaatat	gacctatacg	ggattggtag	aaggcatcgg	gtatgtatat	120
tggacaacgg	aaaccctata	ttttatccgc	actaatccgg	aacaattatg	ggcgattccc	180
aaatatcagc	aaataccttt	tccatatattt	caaaggaaag	atgcaatcat	tgagacaaaa	240
acattgcata	cgctccatgt	cttgtcaaaa	gatgaactgt	tgaaattgga	ttacgatgcc	300
tattatgcat	tttatgggat	cgtggaggag	atgctaaaat	ttattcatcg	ggcgatgct	360
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aatgacgcaa	gaaatgggat	actatcatta	ggtagtcaaa	taaatgacca	aatcggagct	480
ccccttgatg	cagcgaatat	gctaattgat	aataaacata	taggcaaaat	tggagatgga	540
ttgtcgctta	tttctattat	agatgaggta	ggtaattggtg	aatattggtc	agctgccgga	600
gacattttac	tgtttgcagc	cggaaaaaca	aaattaagtc	cctatatgac	tgtcataagt	660
ttaggcacat	ggatgtatga	gacggacttg	atgcaatgga	gattagcatg	tataaattat	720
agcgattaca	aaaaaacact	aataaaaat	cgagaattac	aaaaaaaaatt	tgaagtggga	780
gacaaatctg	tagaggaaaa	gatgaatgaa	tgtcacaaaa	tactgaattc	acattatata	840
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<210> 2439

<211> 1755

<212> DNA

<213> B.fragilis

<400> 2439

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caacctaaca	agaatgtact	aaaagacatt	tatctttctt	tcttctatgg	agcgaagatt	180
ggatattatcg	gtctcaatgg	ttcgggtaaa	tctactttgc	tgaagattat	tgccggtctg	240
gagaaaatctt	atcaggggga	agtgggtctt	tctcccgggt	actcagtggg	ctatctggca	300
caggaacctt	atctggataa	cacaaagact	gtgaaagaaa	tcgtaattga	gggtgtgcaa	360
cctattgttg	atgccctgaa	cgaatacgaa	gaaattaatc	agaagtctcg	tttacctgaa	420
tattatgaag	atcaggacaa	aatggatcaa	ctttttgctg	gtcagggaga	gttgcaggac	480
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acggtaattg	cagtgcgcga	cgaccgctac	ttcctcgatc	atgttgccgg	atggatcctt	780
gaacttgacc	gtgggtgagg	tattccctgg	aagggcact	actccagctg	gttgagcag	840
aagaccaaac	gaatggaaat	ggaagaaaag	actgccagca	agcgtcgcaa	aactctggaa	900
cgtgagctcg	agtgggtacg	tatggcacc	aaggcccgc	aggctaagg	taaagctcgt	960
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atcttcattc	cgaatggtcc	tcgcttgggt	aataagggtga	tcgaggcaaa	acatgtggcg	1080
aaggcttatg	gtgataaact	actgtttgac	gatctgaact	ttatgcttcc	tccaaatggt	1140
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gtagaccagc	agcataagga	tatcgatccg	aacaagagtg	tttatcaggt	gatctccggt	1320
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ttcaatttct	ccggagccga	ccaggaaaaa	ctttgtgggtg	tgctttcggg	tggagagcgg	1440
aatcgtctgc	atctggctat	ggcactgaag	gaagaaggaa	atgtgttgtt	gctcgacgag	1500

ccgaccaatg	atatcgatgt	caatactctg	cgtgcactcg	aagagggtct	ggaagatttt	1560
gcagggttg	ctgttgatcat	ttcgcacgac	cgttggttcc	tcgatcgaat	ctgtacgcat	1620
attcttgctt	tcgaaggcga	ttcgaatgtg	ttctactttg	aaggttctta	ttcggagtac	1680
gaagagaata	aattaaaacg	acttggcaac	gaagaaccta	agcgtgtgag	atatagaaag	1740
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<210> 2440

<211> 921

<212> DNA

<213> B.fragilis

<400> 2440

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acaatcagtt	cgtcagttta	tgaaatcatt	gtggtggaca	acgcgtcccg	ccaggatgaa	180
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gctgcgctga	tgctgaaacg	ggaggtcatc	tggaagcccg	gactgatgcc	ggagatctat	600
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ggaatggaac	gttgcttggc	tatcgcttac	caaagtctga	tcgtagctcc	caaagacagc	840
ttgtgcttcg	tcctgaaagg	agagcccaag	ctggcaaaaag	ccgtctggca	cggagtgaag	900
ggtttctgga	agctgtgttg	a				921

<210> 2441

<211> 459

<212> DNA

<213> B.fragilis

<400> 2441

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tattttatact	tacataaaga	gaatatcgac	cttctcagc	gtgtgtatcg	ggggaaatat	120
ccgctgaaac	actttgatta	cggattgagc	cgtaatgtgg	ggcgtaaagg	tgaaatcact	180
tcggcgctat	gcggcggaga	aatacgaatc	gtcattgatg	gatttgctga	cgctaccctg	240
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cacgaaacga	cctttgccaa	actgcaattt	tcgggcgcac	cggtaaaggag	ctatcgatag	360
aactacgatt	cgcggtgtaa	aaaagggtgtg	gtgactatca	ttgtgataga	agccaaagag	420
attgtaacgg	acaatgactt	atTTTTTtaa	aacaaataa			459

<210> 2442

<211> 1170

<212> DNA

<213> B.fragilis

<400> 2442

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cgcatagca	tagaagtacg	aaccaacagt	tataactacg	ggttgctgcc	cgccccgaaa	180
aaccgggatg	gggagaaacg	tatccgcact	agccagcacg	tgaccggaca	cattgaagtg	240
ccgctgaaat	cctgtgaagc	aatcacctct	tcgggcaccc	gcatccaatt	tgatgccacc	300
gaaacgggaa	gcgaattagt	gaagaactat	tctgtagaat	cggatacccg	taagaatatc	360
acgcaatggg	acattatcct	ctccgtggat	ccgttccacc	gggtaggctc	gggtgacccc	420
aatccggagg	aagttccacc	ccgccatccg	aacgccttgc	cctcctatcg	gctgtttgtg	480
atgccc aaag	gagaaatcaa	tgtgagttag	ctggggggcg	attacctgac	catcggacgt	540

atccgcaagg	atgccgaacg	attcatggta	gatgccgact	ttatcccgcc	ctgtacgacg	600
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ctggagaatt	acagcaaaat	tatcatagcc	aaaatacata	acagggataa	tcgcggcgaa	720
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<210> 2443

<211> 1227

<212> DNA

<213> B.fragilis

<400> 2443

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<210> 2444

<211> 459

<212> DNA

<213> B.fragilis

<400> 2444

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ggatttgccg	cattagtggg	tatcgggtgtg	gtgagttatc	tgaaagattt	tatattcaat	420
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<210> 2445

<211> 453

<212> DNA

<213> B.fragilis

<400> 2445
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<210> 2446
 <211> 399
 <212> DNA
 <213> B.fragilis

<400> 2446
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 aatactacca tagagaatgc acaacaactg gttaaaaact ttcattctct ccaacagcca 180
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<210> 2447
 <211> 1314
 <212> DNA
 <213> B.fragilis

<400> 2447
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<210> 2448
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 <212> DNA
 <213> B.fragilis

<400> 2448
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gccgccccct cctccgggag gagaaagggc tacttccggt acgtccgtat gcgggttggg 240
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<210> 2449
<211> 303
<212> DNA
<213> B.fragilis

<400> 2449
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gatgatttta acatcttcat cctctgtctac tataatgtct ttatccatgc tggtatcatt 240
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taa 303

<210> 2450
<211> 1404
<212> DNA
<213> B.fragilis

<400> 2450
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<210> 2451
<211> 450
<212> DNA
<213> B.fragilis

<400> 2451
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gatgaaaccg	cattattcaa	cgctcttggc	gtgctggctt	atcttcatct	gaaaggaaga	420
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<210> 2452

<211> 810

<212> DNA

<213> B. fragilis

<400> 2452

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tgttttggga	aacagcattc	gtcaaaacac	aacaatgtgt	ctaataataa	tgaatctgac	180
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<210> 2453

<211> 1899

<212> DNA

<213> B. fragilis

<400> 2453

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<210> 2454

<211> 1395

<212> DNA

<213> B. fragilis

<400> 2454

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<210> 2455

<211> 2406

<212> DNA

<213> B. fragilis

<400> 2455

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<210> 2456

<211> 465

<212> DNA

<213> B.fragilis

<400> 2456

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<210> 2457

<211> 2805

<212> DNA

<213> B.fragilis

<400> 2457

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<210> 2458

<211> 255

<212> DNA

<213> B.fragilis

<400> 2458

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gcttactgca	tttttgtttc	atgcaggcct	aactattggg	tgcagtattc	caattatctt	180
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<210> 2459

<211> 219

<212> DNA

<213> B.fragilis

<400> 2459

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aaactagcgg	aaatcataac	ctataacatc	tcctttataa	ggggcaactc	gaaaggaaga	180

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219

<210> 2460

<211> 1488

<212> DNA

<213> B.fragilis

<400> 2460

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<210> 2461

<211> 789

<212> DNA

<213> B.fragilis

<400> 2461

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<210> 2462

<211> 183

<212> DNA

<213> B.fragilis

<400> 2462

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<210> 2463

<211> 2316

<212> DNA

<213> B.fragilis

<400> 2463

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<210> 2464

<211> 966

<212> DNA

<213> B.fragilis

<400> 2464

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<210> 2465

<211> 924

<212> DNA

<213> B.fragilis

<400> 2465

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gatgtggagt	acgaatgggtg	gcggatgaaa	gcacggagaa	aggtgaaact	ggaaaagaaa	840
tacgtgaacg	aagcattcgg	aaacaagcgg	gtaaccgacg	caggtgaagg	gtatcggaaa	900
gagattatcg	cccaaataag	ttaa				924

<210> 2466

<211> 477

<212> DNA

<213> B.fragilis

<400> 2466

tatatggata	tagcaaaaat	tatatatgta	agtttaacaa	tgctgactgc	atgggtgttt	60
atgagtatag	catttccaat	cgatacttat	aagcatcttt	tgggagttgt	aggctcttat	120
atatgtgtga	gctgttcggc	gctgtttgca	agctgggttg	catggcattg	ggtacacctt	180
ttttcttatg	taaagtattt	attgtgtggc	ttgcttactg	catttttgtt	tcatgcaggc	240
ttaactattg	gttgcagtat	tccaattatc	tttttatctt	gttgtggggg	tcatgtgata	300
agtacagaag	ctataactct	gtgggaagta	ttaagctatc	tttttagcat	tttcattatg	360
tctttctatt	ttgtgggaat	ttttactttt	ggacaatgct	tgctaacagc	gagcataaca	420
aagataataa	tatggaaatt	gaatataagt	aacaatatca	ctaataacgc	aagataa	477

<210> 2467

<211> 321

<212> DNA

<213> B.fragilis

<400> 2467

attaccagca	tatctataac	cataagcata	cctaaaaaac	tatcttccat	aacaccatat	60
attccaaata	gtcgcccgaa	gcctaagcca	cccaaaaaga	atgttatcac	tatcagtaaa	120
aggctgacag	cagtcaatga	tagtatagac	tggactgttt	tattcatcgc	acaattgtta	180
gtaatggttc	agcagggaac	ggcttgccgt	tatcttgccg	tattagtgat	attgttactt	240
atattcaatt	tccatattat	tatctttggt	atgctcgctg	ttagcaagca	ttgtccaaaa	300
gtaaaaattc	ccacaaaata	g				321

<210> 2468

<211> 195

<212> DNA

<213> B.fragilis

<400> 2468

gataatacaa	tgccatatat	tactattgaa	gggggggtcac	tcacccgtga	acaaaaaagt	60
gaattaatcc	gaaaagtgc	agaagtagct	tcggaagtca	tgcaaatccc	tatggaattc	120
tttttatgta	cgggtcaaaga	attaccagat	gaaaatatag	gaataggagg	tcggaccatt	180
gacttgatta	aataa					195

<210> 2469

<211> 864

<212> DNA

<213> B.fragilis

<400> 2469

caaatgaaaa	taatggagat	taaatatata	ttttgtatcg	tcttttggtt	ttgggcaatg	60
aaaacgacaa	tggcacaaag	cgacaataac	ttgtttgctt	tggaaaaaca	gctttgtttt	120
attcaagata	cactatctat	actacggcaa	aattatccct	atacagatga	taattactgc	180
gattctttac	aacatagatt	ctctatcctg	ctggaagaac	tttgtgcagt	cgataaagaa	240
atgaaatacg	attttataga	attgaggaaa	aaagaacggc	aatttactat	ggcagtatca	300
gtagacgagg	atagtggggt	attttcccg	aacacttatt	tcggtgggtc	gatgccattg	360
tttgcttctt	atattcaata	taaggataaa	gaacacttgt	atctcttcga	tataaacgag	420
gataatgata	tgggaatatg	ttatgatata	atctattcca	ttcaggcatt	gaataaaaaga	480
tattacctgc	tttcaggaac	aagccaaata	gcggcgccat	atccttttagt	ggtaatgaaa	540
gctgttagtt	gtgcaaacgg	agagttgaag	aaagaaataa	tatttggttc	cggtaatcag	600
caaacagatt	atttgtctat	ctcttatcgc	tatgtaaaag	ataacataga	cacacgatta	660
ttcattagt	gcaatttaac	gttcccccg	attgtatatg	ttgaaacaca	agaggaaata	720
ttaaagcctg	ttaccgtgag	agataaagac	gatatcaaat	atcgcgtgg	agaaattgac	780
gtttataaac	ttgaaagaaa	taagaatgaa	ataaaattca	tcaataacaa	cgaaagttac	840
cacctaaacg	atgatacctt	ctaa				864

<210> 2470

<211> 198

<212> DNA

<213> B.fragilis

<400> 2470

gctgagcgga	tagagtacgg	ctatcaacag	gatgctgacc	atcaggggcg	agatcagttg	60
gatggcgaaa	tggcgcaagc	tgcggtgcag	cgctcatccg	tacatcatcc	agtagcactg	120
agcgaagt	acggtaaagc	tgagcgtgat	gcattgtggc	acagcttcga	gcgtgccgaa	180
ccaaaaaatg	cccagtag					198

<210> 2471

<211> 336

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (310), (312), (315), (320), (328), (333)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2471

cgccagtcgc	tggtacctcg	gaataaacac	ttatttataa	gaattatgaa	agcaaagaac	60
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ttgagcatgg	cactgctcac	aggctttatc	catacgaatg	gaagcgaata	taaactgatg	180
gaatccaaaa	cgcaagaata	cgataagatt	tacgccagac	agattgccct	ggtggataag	240
gtggattcgc	tgtataacta	cctgggtgctg	atgggtcttca	ccacggggct	ggaaaagacc	300
gctgcaattn	cnaanagccn	ctctattncc	aanccc			336

<210> 2472

<211> 315

<212> DNA

<213> B.fragilis

<400> 2472

tttgtccgct	tccggatagt	ggggcgcacg	atagaatttg	gacgcaatag	cgtacaccaa	60
cagataggct	acgcaaagtg	ccagcgggaa	gaacaggatc	cagtcgacca	agctcagatg	120
agtatcataa	gtcttaatat	agggttatgg	tcgatataat	tgtgtaaaatc	ggttcaactg	180
tggttcacca	cagattacac	agaggatcat	ttcggcagag	tcttacagaa	tcctatagaa	240
tctcagagaa	ttccacagga	tttcaacttt	tcgtttatgg	atatccccca	agaaaatgat	300
tcctctctgt	gttaa					315

<210> 2473

<211> 3747

<212> DNA

<213> B.fragilis

<400> 2473

aaaaatcaag	ttcaaaaacc	gaaagtaatg	acttcaactca	aacatcaact	cttttccgga	60
gtattctata	ccgcccttgc	caagtatagc	ggcatagggg	tatcaactcg	cgtacggggg	120
gtgctggcac	gtctgatttc	accggacgac	ttcggcggtg	tggccgtagc	cacggtaatc	180
atcgcttttt	tcaacttggt	tactgacgtg	ggactgtctc	ccgccatcat	ccagcacaag	240
acactgaccg	gagaaaatct	gtctggcctc	ttctccttca	ccgtctggac	aggcattggg	300
ctggcgctgc	tctttgccgc	tgccctcggtg	cccatagccg	cctattacga	ccgggagatt	360
ctgcgcccc	tgtgccagct	gctgggtgtc	aacctatttt	ttgcttccgc	caccatcggt	420
cccaatgcgc	tggtctaccg	caataaagag	tttaagttca	tcgccctgcg	gagtttcgtc	480
atacagatag	ccaccggaac	ggctgccgtc	gtggcagccc	tgtgcggagc	cgggctctat	540
gcgctgatca	tcggccccc	cctgtcgggc	atcctgatct	tcgcgggtct	catacgcac	600
tatccgcaac	gcctgaagtt	tacactagga	ctggacgtgc	ttcgccgtat	cttttccctac	660
tccgcctacc	agttcctggt	caacatcatc	aactacttca	gccggaatct	ggacaaaactg	720
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accgtcaact	tcgctcagtg	ctactggatg	atgtaccgga	tgacgctgca	ccgcagcttg	1260
cgccatttcg	ccatccaact	gatctcgccc	ctgatgggtc	gcacccgtgt	gatagccgta	1320
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actggcaagg	gcaaaaagca	tcataaacia	aaacaaacga	tgaaagcact	gtttcttata	1500
ttccacggat	ttgaagaagc	gaacggcatc	agcaagaaaa	tccgctatca	ggtaaaagcg	1560
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tgccggatga	tagacaatca	cacgctgcgg	gactacggca	gcggaataaa	aggaaaactc	1680
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cggattataa	agggaaatggc	agactactac	gccaccacc	cctcctataa	ggtctacttc	2160
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aagatattcg	aacagtcgga	tttcggcatc	ggaagcctgg	caaggcaccg	gagcgggaatc	2340
acaaccatca	agacactcaa	gaaccgggaa	tatgcggccc	ggggactacc	tttcatctac	2400
tccgaaacgg	ataccgactt	tgacgacaaa	ccctacgtac	tgaaagcacc	ggcaaacgaa	2460
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aagtatcaag	taacctctga	aaaaaagctg	aaaatagcct	attgcattcc	gtcaatccac	2640
tgtccgggag	gtatggaaag	agtgattagc	ctaaaggtaa	attatttcac	taagaaattc	2700
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aagctagccg	agaaaatagg	atacctgatc	agccatgaga	atatccgcaa	agagatggga	3660
caacggggcc	gcatccatgt	ggaacggttt	aaaatagacc	atatcgccct	acaatggaaa	3720
gaacttttta	acagcctgat	atcatga				3747

<210> 2474

<211> 213

<212> DNA

<213> B. fragilis

<400> 2474

tacgaagaag	tgaataatgc	catcgagaaa	atagggcaag	agatgtatcg	tgagactgag	60
tttctggaaa	aagcaatggc	tatctattta	ttggataata	cttcttttgg	agagcacgga	120
ttcgatttgg	ctaataccgaa	gctaattgaa	gaggcgatta	atgacgggag	aattaaacca	180
ttcccagag	cgactagaaa	aacaaaagat	taa			213

<210> 2475

<211> 1467

<212> DNA

<213> B. fragilis

<400> 2475

gttaatggag	ttatattaat	gacatgtaaa	tatgatagga	taatgaatat	aaaaacactt	60
ttgattatgg	gattagttaa	tatgttttgg	ttagggtggg	gtgccaatgc	cgaaataggg	120
aaacaagttc	tcaatctgga	tgacttggat	tatggcattg	acgtagtccg	ctattatgct	180
ccggctatgg	aagagagcaa	agacactgta	gaagagcatt	attacgtaaa	cagagatacg	240
gtgaagtttt	atgatacggg	aacggacaaa	cttcttccgg	tcttgattgc	ataccgccat	300

aatataaaat	taaaacgtat	ggcaaatcta	ttcacaaaag	aaagcattaa	agcccggatg	60
ttcaaacagg	cggcaaccct	atatgacata	cgaaatatag	atggcataga	cccccttatc	120
cgactgctga	ttgaagcctt	gtcgggcgaa	atthttcaagc	tgtccggtga	tatgcacgcc	180
attgaaagcc	gattgttgga	gaaagtcgct	tccgccttata	ctccacacac	ggcattgggt	240
gccaaccgcc	cccatgctat	tgtcgtgcgc	cgaccatata	caccgcgaagc	tactgtatct	300

cccacagacc	tgttttctta	taaaagcacg	gagatagtga	agaagtataa	gatgaaaaat	360
ctcttcttta	ctccgctgca	tgaacccgc	ataatcaatg	ccgaactgaa	gtttctcgtg	420
acggcggatg	aattttgcac	aatcactccc	gaaggagaac	gtgacgccac	tgcccgcgtt	480
cgttccgatg	tgccggtaat	gggtcggaaa	atcagtatcg	ggatgaaaat	aggcaacaat	540
gtaactaccc	tcaacgactt	gccgttatat	atagatatatac	cgcttgtagc	agataaaaagc	600
agttatctga	aattactgcc	gtactgccat	tgacagattg	ccggtattcc	tgtagaaatt	660
aaagggggaa	tcgagtacgc	ccccacacgt	tcggtcagtg	agaaatacga	tcttggcagg	720
ttgattacgg	aagaaaataac	cagcaaatat	gcttcccatt	acctgacatt	gaaagctcac	780
ggattaaaag	tcagagattt	gtcacgtagc	agagtgcctg	aagaaatctc	tttcctgctg	840
ccaagtgatt	tcattgctga	atgtgatgcg	gatactgttt	ggatagatat	agaatttccc	900
accgcttttt	caaaagaaat	actggaacag	ataaagggtgc	agatgaacac	ttttatcgta	960
gtaaacaaat	atccggcaaa	gattaccaga	aaggtagatt	ccgtctcggc	cattctccct	1020
ttggaaaaga	cgggaatttga	atatttctctg	tttgtggatt	cgattaccga	taaccacgga	1080
gaccggctta	gggaaatttc	cggcacacag	gatgaaggta	gggccggctg	ttattcggctc	1140
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gaggtaatcg	agcagataga	agaacgggta	agccaattgg	gagataaaaa	taaagacgga	1320
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cggttaactg	tggattatac	tcttactaat	ggcgaatttg	ccaatgacat	ctatgcggga	1440
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ttcgcccatg	gaggagagcc	ctcccccttc	gtaaggcgcc	ggatggatat	gtaccgcgatc	1560
atgctgttgt	cacacggcag	tatatacacg	aaagaggata	tacgcaattt	ctgcatggca	1620
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gaaagcgag	gtttcataag	gacgctggac	gtgtatctac	ggctatcgga	ggggatgcaa	1740
ggattagacc	gggacgaatt	cgctcgttgat	ttggacagtg	agctcaggcg	gttgtctccg	1800
gaaacctata	actaccgtgt	ttttattaac	tcatag			1836

<210> 2479

<211> 552

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (319)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2479

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attgcactga	cttttgtcct	ggccggcatc	accattgccc	gagcattcgc	cggacacata	120
cctcccgagc	actccactct	gatgcctttc	atcgggctgg	cgctgtcagg	actgttattg	180
atcaatcttg	tcgccgccat	ttactggggg	attcgcggga	ggttctggat	catcattccg	240
ttgatagcca	tagctgccaa	ctggcaatat	ctgggtcgga	tcttccaact	tcttttacgg	300
tcggaggaaa	aagaggcana	tacactgaaa	atagcgacat	acaagggtga	cagtttcggt	360
acgaagcagt	cgggatattc	gtgcaaggag	attgcggctt	atatgaaaga	gcaccgggtg	420
gacattatct	gctttcagga	gtttgtcggg	caaccgggtac	ttttacttca	gacagcatac	480
ggaacgcatt	tgcagactgg	cagtatgccg	tcattccgca	agctccggac	agcacaccta	540
tcttgcaggt	ag					552

<210> 2480

<211> 996

<212> DNA

<213> B.fragilis

<400> 2480

gagttaaatt	ctaaaataat	gaatataaga	aatttatttt	ttttaggtag	tatattactt	60
ttattgagct	gcaaaaatag	taaacagcag	gaagggtata	attctattaa	tattattaaa	120
tatattaata	tttataatga	aaacaacagg	attctaactg	cacaaggtac	tgaatatgac	180
tatctctatt	ttggagacaa	taaagataaa	gagatcttgg	cgaatgtaaa	taattttaca	240

aagacatata	ggtatgataa	tgattcttcc	tgctatactg	tagaggaacc	cttgtcggaa	300
tcattgctaa	aaacaatgag	atacactgaa	aataccatag	aagaacttgt	attggaaaat	360
aataaaagaca	catttagtta	tactttttct	acctattatg	ataagaataa	gcctaagtat	420
aataaaagta	ttataatatt	aggagatgaa	ccctcttctg	actcaagata	tgaggaatac	480
tactactatg	ataataatgg	aaataatacg	aagaaaatcc	atcatgattt	aaacaccggg	540
caaagagaag	aaacctataa	atttaaatgat	acagattata	aagaagctgt	taatcttgtc	600
ccttcttccg	attacaaaca	aaatatcgag	tgttcattga	aacaaactgt	taatgatacc	660
ttaatcactc	ggattacctt	aaacgggtga	cttaatagag	tgatgaagga	atacattgat	720
ggaaaaaaga	aaattaagga	agagttggac	aatgatatga	ctttagtcaa	taaaaaaaca	780
gagtatgaag	aaaacggact	gaaagtaaac	gtcaatcata	ctataagaag	tacaggctac	840
tcaaccgaca	gtatctatta	taaaggggaa	aaaaaagtta	agcatatcta	caattccgac	900
tacaatggta	ccataacact	tgaaatctca	gaatatgatg	agcaaggaaa	tatagtaaaag	960
aaaacaaaaa	aactcagatg	gccatcagat	aaataa			996

<210> 2481

<211> 303

<212> DNA

<213> B.fragilis

<400> 2481

ccaatattcc	tcactgctgc	ctcccgtagg	agtttggacc	gtgtctcagt	tccaatgtgg	60
gggaccttcc	tctcagaacc	cctatccatc	gaaggcttgg	tgagccgtta	cctcaccaac	120
aacctaattg	aacgcattcc	catcctttac	cggaaatcct	taataatgaa	accatgcgga	180
atcattatgc	tatcgggtat	taatctttct	ttcgaaaggc	tatccccgag	taaagggcag	240
gttggtacg	tggtactcac	cgtgcgccg	gtcgccagca	aagaaagcaa	gctttcttcc	300
tga						303

<210> 2482

<211> 192

<212> DNA

<213> B.fragilis

<400> 2482

cctccaacaa	agttggatga	cattccttca	gaatgccggg	ttgtccatt	cggaatctt	60
cggatcaaag	gtcatttgca	cctacccgaa	gcttatcgca	gcttatcacg	tccttcacgc	120
cctccgagag	ccaaggcatc	cgccatgcgc	ccttatttac	tttcttttat	cgccagggat	180
catttccttt	ga					192

<210> 2483

<211> 189

<212> DNA

<213> B.fragilis

<400> 2483

tgtagaggtc	ggcagttcaa	ctctgcctgg	gactaccaac	agatagatat	tttatcttgt	60
atgattgggg	gattagctca	gctggctaga	gcattctgct	tgacacgaga	gggtcaacgg	120
ttcgaatccg	ttattctcca	ctccgatacc	gcaaccgaac	aggcttgcgt	gttatcaaac	180
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<210> 2484

<211> 2004

<212> DNA

<213> B.fragilis

<400> 2484

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<210> 2485

<211> 246

<212> DNA

<213> B.fragilis

<400> 2485

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gttcttcagc	agactgtgta	ctttcggata	cttctttata	tcttcaaaaa	aacgcttggt	180
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<210> 2486

<211> 636

<212> DNA

<213> B.fragilis

<400> 2486

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636

<210> 2487

<211> 984

<212> DNA

<213> B.fragilis

<400> 2487

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<210> 2488

<211> 930

<212> DNA

<213> B.fragilis

<400> 2488

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gccgagaaga	tgaactgcc	cgaatggcat	cccattacg	gtcctgccgg	atgccatcct	540
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caagtgcctt	aatcacgtat	aatggaatag				930

<210> 2489

<211> 309

<212> DNA

<213> B.fragilis

<400> 2489

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ggacgtgggt	cgaagaccgg	tgatccgcat	ttcggcagcc	acgcctggcc	tagtatgtgt	180
tcggccatca	taacgggtgt	ggatgacaag	aaggtggacc	cggttgctgga	tgcgttgcat	240

cggatggaca tgcagacaga acagctcggt ctgctgggctt ttgtcactaa cgtggagcga 300
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<210> 2490
<211> 228
<212> DNA
<213> B.fragilis

<400> 2490
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aagaatagag tgcagcatgt atggtgtgtt gtatgtattg agggattat gcaaacgagt 180
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<210> 2491
<211> 303
<212> DNA
<213> B.fragilis

<400> 2491
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<210> 2492
<211> 933
<212> DNA
<213> B.fragilis

<400> 2492
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<210> 2493
<211> 663
<212> DNA
<213> B.fragilis

<400> 2493
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<210> 2494

<211> 3066

<212> DNA

<213> B.fragilis

<400> 2494

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<210> 2495

<211> 195

<212> DNA

<213> B.fragilis

<400> 2495

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<210> 2496

<211> 228

<212> DNA

<213> B.fragilis

<400> 2496

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<210> 2497

<211> 1260

<212> DNA

<213> B.fragilis

<400> 2497

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ggtaaaaaag	gcgacttcgt	agtgtctgac	tccgataatt	accatattct	tccctattat	1200
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<210> 2498
 <211> 1470
 <212> DNA
 <213> B.fragilis

<400> 2498
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 ttatggctga cattgatcgt cctgttcgca ttaattggaa tgcactggct gcctgctata 180
 acgatcgacg gacatacgat gaggcgtgtc gatttgcgta gtgatgtccg tatgcctgaa 240
 cctgataaag atgaagtagt ggcagacagt ctgccgccgg tcccggttgt gaaacctgca 300
 tttgtagata cgtgccgcag cgggatgacg tgtatcgaag attatagtga ctcgacgatg 360
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 cgtatagctg tgttcgggtga ttcctttatt gaggcggata ttttcacagc cgatctgcgc 480
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 cgtgaaagag cttacgttga acttcgcgga caaaataaat atgcttcttt actcgatacc 720
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 gggctgggtg atgccaagcc ctctttggct aattatgatt atacacacat caacttccgg 1380
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 gaaaggagaa aggcctatga ggctgaatag 1470

<210> 2499
 <211> 642
 <212> DNA
 <213> B.fragilis

<400> 2499
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 gttgcctcgc tgaaagtgga gaaacgtaca aagaatcata ttctgatgac cgggtggtgcc 180
 gactataaga tcagtgccgg gccggacgat tccatgtgca aatacctgaa gtcccgtgt 240
 tatgccgtgc aggcggacac ttccctttat gtgaactgca agagattacg ctataagaag 300
 tttcgtttcg gaggttggtg tgctcccgcc ctacgcattg gagaccatat ttattttagt 360
 gccattcctt taggttccgt agctgccggc agcgatgcca cgatggatgt gatgctgggt 420
 ggtcaattcg gcgatgcgat tgctgcttcc gctttaatat ccaaacgggt atattatgaa 480
 atagatcctg aaaccaataa ggtaggattt gtcggaaaag agcggatgga agaactgctt 540
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 accgataaat atctgcgact gctgaaggcg gaagagaagt ag 642

<210> 2500
 <211> 930
 <212> DNA
 <213> B.fragilis

<400> 2500
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gtggaagtgg	gcgatcatgt	gtccaaaggc	cagaaactag	tgcagatgga	tgctgccaac	300
ttgaaacaga	ctaagctgca	actggacaat	caggaagtgg	aattcaatcg	tatcgatgaa	360
ctgtataagg	taggtggtgc	ttcaaaatcg	gaatgggatg	ctgcaaagat	ggcctatgac	420
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ctgaccgttg	aaaagattac	tccggtcaaa	cttttgatca	atgtatccga	ggtttacttc	600
accaaggtga	agaaaggtgc	tcccgtgaat	gtgaagctcg	atgtctacgg	tgatgaggct	660
ttcgaaggca	agatcagctt	gatttatccg	acgatcgatc	cgtctaccgg	tacattccag	720
gtggagattc	aattgcctaa	ccagaatcag	aaagtacgtc	cgggaatggt	tgcccgtgcc	780
agcctgaatt	ttggtacgga	agagaacgtc	gttggtcccg	atttggtctat	tgtgaagcaa	840
gctggtgccc	ggcgaccgtt	atgtgtatgt	atacaaggat	ggaaaagtga	catacaacaa	900
agtggaactg	ggacgtcgca	tgggggctga				930

<210> 2501

<211> 1362

<212> DNA

<213> B.fragilis

<400> 2501

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cttgacaaa	cactggaaat	tgcattgagc	gaaaaccca	caatgaaagt	ggccggccaa	180
gagattcagc	tgaaaaaaga	ggctaagaag	gaggcatacg	gcggactatt	tccggagggtt	240
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ggagaatcgc	aaaccatcca	ggtaggttcg	gacaactcgt	ataacggagg	actcaatgtg	360
agtctccctg	tatttgctcc	gacgctttac	aagagtatca	atctgaccaa	gacagatgtg	420
gaactggctg	ttgaaaaagc	acgctcgctg	aaactagact	tggtgaatca	ggtgaccaag	480
gcatattatc	agttgttggt	ggcccaggac	agctacaaag	tgctcctgca	gagttatgcg	540
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tatgataaga	tacgcgccga	cgtacagggtg	cgtagcctga	aaccctcggt	agtatctgcc	660
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gccgacttgt	tgaagaaaac	actggctgtg	cagcgaacca	atttcattgcc	gacattgggt	900
gcatcggtca	actattcgta	tacatcgctg	aataatgact	tcaagatgtc	gcattacaag	960
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ctgacacagg	cccagttgac	ttacaaccag	tctatctacg	actatttggt	tgctaaggct	1320
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<210> 2502

<211> 480

<212> DNA

<213> B.fragilis

<400> 2502

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aattatgggg	ttgcgtgtct	tccggaattt	ttggtcgcca	atccgggact	taattccggt	120
tttatgattc	ctcagtcacg	tgctgcctct	atggtcagcc	agaataagat	gtactgctat	180
gcggcctcga	gtgattcaat	agtctcttcc	aacggtcagg	aagatcatgt	tagcatggga	240
gccaatgccg	ctaccaaaact	tttccggatc	atggataatc	tggagcataat	ccttgccatc	300
gagttgatga	atgctgcgca	gggaattgag	tttcgtcgtc	cggcaaaaac	ttctcccatc	360
cttgagcgct	atctggctgc	atatcgtaaa	gaggttccgt	ttgtaaagga	tgatattcggt	420
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<210> 2503
 <211> 1578
 <212> DNA
 <213> B.fragilis

<400> 2503
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 ctgttgagg ctttcaaata taatccggat gcgccgatga tattcagcag cggaattttt 180
 ctttggtgt tcgctgcgtt tatggtaate tataactgt tgcaacatcg caatacggta 240
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 gggatattggc gggatatttc actgatggca gttggtttc tgctccattt tgctccggat 1440
 agttgggaaa atgccgtttg ccgtggagt atcaagcttc ctttcttagg taaagctatt 1500
 gtaatggtgg ctatgattta tctggtcatc cagatgaaga gcagtgagat tcagccgttc 1560
 atctatttcc agttctag 1578

<210> 2504
 <211> 192
 <212> DNA
 <213> B.fragilis

<400> 2504
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 aacaaagtgg aactgggacg tcgcatgggg gctgaatatg aattgaaatc cgggtgaccc 120
 aataattctc aggtagtc at tgccggctag acccgattga tcaacggcac tgaggtagag 180
 gtagaaaaat aa 192

<210> 2505
 <211> 594
 <212> DNA
 <213> B.fragilis

<400> 2505
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 agtttttcag acatatattc tatatattat gtgagaatgc ttcgtttctc gcaaacctat 120
 gttattgcgg aagaggatgc agaaaacata gtgcaagata ccttccttta tctatgggaa 180
 catctggagt tattggaaga tatagaccat ctggatgcct ttttttttac tcttatcaaa 240
 aacagatgtc tgaactttct gaaacatcag tcgtatatcc aggccaaaac ctgttcgctc 300
 aaagcagacg aagaactgga gtctcaattg aacctatatg ctttggaaac atttgacgaa 360
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gaacgttgca	gagaaatcctt	tttgctcagt	cgcataagaag	gattaaaata	taaagaaata	480
gccgaacgcc	tggatatatc	cgtaaacacc	gttgaaaatc	agatatccat	cgcacttcgc	540
aaactcagat	cagaactcaa	agaatatcctt	cctttactgg	tttttatcat	ttaa	594

<210> 2506

<211> 234

<212> DNA

<213> B.fragilis

<400> 2506

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gaaggaaata	gagaaaaaag	gggggtatctt	ctgggaaaaag	ggataaagtgc	tggtccgaaa	120
gggtagattg	tgattaaagc	aagtatgggg	gcagggaatt	ttaaaaagca	agggtgggaa	180
tggaagcagg	aggagcttac	tattaaaccc	cacaggacat	tgcttaaaaa	ctaa	234

<210> 2507

<211> 2436

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (2269)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2507

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agcctgactt	tcggcgaatt	gatgcgcgaa	atcgaaaaac	agactaatta	tctgttcacg	240
tatcgtgatg	cagaaattga	cctttctcag	aaaatagagg	taaaaaacac	cagtgtctacg	300
gtaaaggaaa	tcctgacaac	ggcgctcaga	aacaaaaagt	tgacgtataa	attctctaata	360
aactacattt	ctcttttacgt	agacaaaagag	aaagctcctg	agaccatggg	taccagcag	420
gaacgaaaaa	ttaaaattaa	gggtgtagtg	atcgatcagg	tcggtgagcc	gattatcgga	480
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caggaaatac	ctgtgaatgg	aaaagcatct	ttcaacattc	agatgaaaga	agatactaaa	660
accctggatg	aagtggtagt	tgtaggctac	ggttctcaga	aaaagcaaac	tgtaaccgct	720
tcggcttcta	cactaaaagt	atcttcactc	aaaaatgtgc	caaccgcca	cctggcttct	780
tcactcggcg	gacgcgtcag	cggcggtattg	attcagcaga	ccgggtggcga	ggccggatat	840
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<210> 2508

<211> 1041

<212> DNA

<213> B.fragilis

<400> 2508

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gaaaaaacag	aatttctgaa	taaactccga	gataatccgg	aagctaaaaa	agaattcgca	180
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atcgctaact	ggtatacaca	aaaagagcaa	aaaaaacaat	atacggagat	caatgttccc	420
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tctacttcca	acttcgacaa	tgaagaatac	ctgaagagtg	gtattttcag	ctttcgctca	840
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accggagacg	tgaaactgga	cgaacgaatc	tcaggcaaaa	tccgacaaaag	cgaagatgtg	960
gataatatcc	tgatagcctt	gcagggagta	tatcctttta	aattcaaaaa	aacagatgat	1020
gaacattatg	agatttacta	a				1041

<210> 2509

<211> 1146

<212> DNA

<213> B.fragilis

<400> 2509

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actgaaaccc	gtttcccgaa	ccccaatatc	acttgggaaa	cttctgaaat	gttcaatatc	180
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1146

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<210> 2514

<211> 741

<212> DNA

<213> B.fragilis

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<211> 198

<212> DNA

<213> B.fragilis

<400> 2515

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<210> 2516

<211> 207

<212> DNA

<213> B.fragilis

<400> 2516

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agtgatatag	aggaaaatcg	tgaaatgtca	aattggacag	cttgtccgg	cagagtatta	180
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<210> 2517

<211> 1845

<212> DNA

<213> B.fragilis

<400> 2517

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<211> 867

<212> DNA

<213> B. fragilis

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<210> 2519

<211> 1593

<212> DNA

<213> B.fragilis

<400> 2519

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<211> 1356

<212> DNA

<213> B.fragilis

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<212> DNA

<213> B.fragilis

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<211> 1226

<212> DNA

<213> B.fragilis

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<210> 2523

<211> 762

<212> DNA

<213> B.fragilis

<400> 2523

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cccggtagag	atttgtttat	gattagtaca	gtaacgggat	ttagatttct	tcgtcttgaa	480

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agcaaacagt	gcttactcta	tcctcctttt	agtataaaag	aagacttgat	tatttcacgc	720
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<210> 2524

<211> 738

<212> DNA

<213> B.fragilis

<400> 2524

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<210> 2525

<211> 3360

<212> DNA

<213> B.fragilis

<400> 2525

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<210> 2526

<211> 918

<212> DNA

<213> B. fragilis

<400> 2526

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gcggcaggat	tcategttga	acgtctgccc	ggacctccgg	gaggcaaaag	ggagatactg	840
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<210> 2527

<211> 972

<212> DNA

<213> B. fragilis

<400> 2527

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ctttcgtacg	actgggaaga	agagatgctg	aatgtggcga	gaagcctccg	tggtgaaccc	960
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<210> 2528

<211> 732

<212> DNA

<213> B. fragilis

<400> 2528

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cctagtttac	aggaagactt	ctacgtagac	agcctgacaa	ccggagcaag	caaagaaacc	180
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<210> 2529

<211> 879

<212> DNA

<213> B. fragilis

<400> 2529

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<210> 2530
 <211> 432
 <212> DNA
 <213> B.fragilis

<400> 2530
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 gaaatcgccct atattttctg ttcggacgaa aaaatattgg aagtgaaccg ccaatatctt 180
 caacacgatt actatacaga tatcatcact tttgactatt gcgagggcaa tcgtctttca 240
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 tatgaagaag aactccaccg gacaattatt cacgggtatac tccacctttg cggaatcaac 360
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<210> 2531
 <211> 363
 <212> DNA
 <213> B.fragilis

<400> 2531
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 tggggtgacc aatgtatcaa accgggaata gaagcagtg tcatgataaa ccctaaaaac 240
 ggaaaagaaa caccgctcac caccgcgaac atagtaaaca aggcgttggg agccggaaat 300
 cacggtaagt tgcaacactt ctacaatgcc agtttcccat ggccaaagaa aaccctatgc 360
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<210> 2532
 <211> 1230
 <212> DNA
 <213> B.fragilis

<400> 2532
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 agagccgaag acttgatatg tcaattcagt gagagaatag ataaggagaa aggtgggtacg 180
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 aaaatagcta caagaactgg tgagataagt acggatagtg tgaatatgtt catatttgat 300
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<210> 2533

<211> 1218
 <212> DNA
 <213> B.fragilis

<400> 2533

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gtcccaagtg	atgggcagtg	ccggagagtc	gtaggccgga	cgtttcatct	ggtcgatgta	1080
ccagtcggtc	tggaggtagc	tcaggttaca	ggtacgtgcg	tcggtgcgga	agctttcggg	1140
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<210> 2534
 <211> 423
 <212> DNA
 <213> B.fragilis

<400> 2534

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cttatttata	actccgaaga	agaaaacggc	atgttaatat	gacaaaccgt	ttataagaaa	180
gaaggttctt	ccctagccaa	ttatatgaaa	tataactata	aatacagatg	caataaacgc	240
atgattgaaa	gtcagactat	gaaatggaac	agctataaaa	ataattggga	gaacgatttg	300
ctggttcgct	atacgtacga	aggcaaaacc	attaccacaa	actattataa	atggaataac	360
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<210> 2535
 <211> 909
 <212> DNA
 <213> B.fragilis

<400> 2535

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gttcccgaag	acaatacggg	agaagtgaag	aaattccttt	tcaactgtat	tgacctgacc	180
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gcacaagtga	taaaagacac	acttgaggta	gaaggatata	acattgcctg	tgtatcagga	360
ggctttccct	cttctcagac	atttaccgaa	gtaaagatat	cagaaaacagc	tatggcattg	420
gctgacggag	ccgatgaaat	agatatcgta	attcccgtag	gggcattttct	gagtggcgac	480
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aaagtaatcc	tcgaaacagg	cgcttttaaag	actgcctcta	acattaaaaa	agcctctatc	600
ctatccatgt	attccggagc	cgattttcatc	aaaacatcca	ccggaaaaaca	gcaaccggca	660

gcaaccccg	aagcagctta	tgtaatgtgc	caagctatca	aagagtacta	cgaacagaca	720
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tattatacca	tcgtaaaaga	agtattgggt	aaagaatggc	tcagcaacga	gctgtttcgc	840
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<210> 2536

<211> 1884

<212> DNA

<213> B.fragilis

<400> 2536

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gactaccgtg	aggttatcag	cacacgtcca	ttgccaaagg	aaggtgccaa	tagagattat	180
caccctgaaa	cgggacatgt	agcctatacc	ataggcaaca	atctgtatgt	ggacgatcgg	240
gccgtaacca	acgaaccgga	aggtatcgta	tcgggccagt	ctgttcatcg	caacgaattc	300
ggaattaaga	aaggaacttt	ctggagtcct	tcgggcaatc	tgctcgcatt	ctatcggatg	360
gatcaaagta	tggtagccca	atatcccctg	gtc gatgtca	cagctcccat	tgccgaagtc	420
aacaacatcc	gctacccgat	ggcaggggat	accagccacc	aggtaaaagt	aggcatctac	480
aaccccgcta	ccggcaaaaag	tatctatctc	aatgccggag	acccgaccga	tcgctatttc	540
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<210> 2537

<211> 399

<212> DNA

<213> B.fragilis

<400> 2537

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ggagaggatg	taatggctat	tatgaaagat	agacataagg	tacatttgat	tactcataag	180
gaggcaaatc	tgcaagaaag	tactctactt	gttgcttggt	gttatattga	agagagccaa	240
ctattttttaa	atttttaattc	ctccttagaa	aatagaaaga	tacaggttgt	tgattccgaa	300
acagggcaga	ctgttttttga	tgatactata	acaggtactt	ctttctctat	cttttttgaa	360
agggatttctg	atagtttttga	cattttatatt	ggaaggttaa			399

<210> 2538
 <211> 456
 <212> DNA
 <213> B.fragilis

<400> 2538
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 acattagaag aagcacagaa agccgttgat gaatggatac acaaatacgg tgtacgttat 180
 ttcagcgaat tgaccaacat ggcagttctc accgaagaag taggcgaact ggcacgtatc 240
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 gagataacgg acgtactctg ggtactcctt tgcacgcaa accagaccgg ggtaaacctc 360
 acagaagcat ttgcacgaaa tctggaaaag aaaacccaaa gagacaacaa aagacatatc 420
 aataatccaa aactgagtga acatggaaat gaatga 456

<210> 2539
 <211> 1134
 <212> DNA
 <213> B.fragilis

<400> 2539
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 gccgtgtccc agcagctcga tcgggcagtt gaagtccgt tccagccatt cgggtgtgac 180
 gcttgccggc ggggtgatagt ccagtgtttc gttcacgcag gcgatgttct ttacctgttg 240
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 aataagcagt tgcgggtcgc tgatgatggc tcgtcccagc agggcgcggt gcagttgtcc 420
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 gtcataaggc gcggagagtc ctctgatgga gaggaggggg gaggaagtgc ctgcttccgt 840
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<210> 2540
 <211> 915
 <212> DNA
 <213> B.fragilis

<400> 2540
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 caaaagaatg tacaacgtaa cgatgagcgg aatcctaata tacaacacat cgaatatctc 240
 aaaaaaatgt ttcggcaaaa agctgtcgac gaaatatccg aaaatatagt ttatccattg 300
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 tcaatcttcg atgaagactt aatccgtatt attacgagtt cggatattga tcaatggtcg 420
 gaaatgggat ggagaggaat aatgctggac gatggcatac tttggatgga ttacgacgga 480
 aaaattacag ccgtgaatta tcaaagcaaa tacgagaaaa agcttgccaa gaagcttacc 540
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 aaatttaaga caaaaaatta ttttataagg atagatgaac tgaaaaacgg catgtaccgg 660
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ggaaaaatag	aatttagtgg	aagtggagga	aatcacgtga	ttacatttaa	aaataatata	780
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<210> 2541
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 <212> DNA
 <213> B.fragilis

<400> 2541						
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<210> 2542
 <211> 465
 <212> DNA
 <213> B.fragilis

<400> 2542						
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atcgggttgt	tcaatgattt	tcagtgggac	tattatttaa	agcagataga	agtcgctgaa	180
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aacgggctta	cgatctctgc	tgtcggcgat	ccggaagatc	ctgagtttta	tatttttttac	300
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gattatgtca	gtgagatcac	tggtcaaacg	aaagaggata	ttattgaatg	tctgaatgcc	420
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<210> 2543
 <211> 477
 <212> DNA
 <213> B.fragilis